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        OCT 10 PCTFULL: Two new display fields added
NEWS 6
NEWS 7
        OCT 21 BIOSIS file reloaded and enhanced
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
        DEC 08
NEWS 11
                IMS file names changed
NEWS 12 DEC 09
                Experimental property data collected by CAS now available
                 in REGISTRY
        DEC 09
                STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 13
        DEC 17
                DGENE: Two new display fields added
NEWS 14
        DEC 18
NEWS 15
                BIOTECHNO no longer updated
NEWS 16 DEC 19
                CROPU no longer updated; subscriber discount no longer
                 available
        DEC 22
                Additional INPI reactions and pre-1907 documents added to CAS
NEWS 17
                 databases
        DEC 22
                IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 18
        DEC 22
                ABI-INFORM now available on STN
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NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
              MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
              AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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FILE 'HOME' ENTERED AT 12:22:40 ON 16 JAN 2004

=> file medline, uspatful, biosis, fsta, wpids, japio, jicst, embase, dgene, biobusiness

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SINCE FILE TOTAL ENTRY SESSION

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0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:23:20 ON 16 JAN 2004

FILE 'USPATFULL' ENTERED AT 12:23:20 ON 16 JAN 2004
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FILE 'BIOBUSINESS' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 Biological Abstracts, Inc. (BIOSIS)

=> s albumin fusion protein
L1 2849 ALBUMIN FUSION PROTEIN

=> s BMP-1 and albumin
9 FILES SEARCHED...

L2 193 BMP-1 AND ALBUMIN

=> s 12 and 11

L3 0 L2 AND L1

=> d 12 ti abs ibib 1-10

L2 ANSWER 1 OF 193 USPATFULL on STN

TI Novel proteins and nucleic acids encoding same

Disclosed herein are nucleic acid sequences that encode novel polypeptides. Also disclosed are polypeptides encoded by these nucleic acid sequences, and antibodies, which immunospecifically-bind to the polypeptide, as well as derivatives, variants, mutants, or fragments of the aforementioned polypeptide, polynucleotide, or antibody. The invention further discloses therapeutic, diagnostic and research methods for diagnosis, treatment, and prevention of disorders involving any one of these novel human nucleic acids and proteins.

ACCESSION NUMBER:

TITLE:

AB

INVENTOR(S):

2004:13595 USPATFULL Novel proteins and nuc

Novel proteins and nucleic acids encoding same Zerhusen, Bryan D., Branford, CT, UNITED STATES Padigaru, Muralidhara, Branford, CT, UNITED STATES Spytek, Kimberly, New Haven, CT, UNITED STATES Spaderna, Steven, Berlin, CT, UNITED STATES Gangolli, Esha A., Branford, CT, UNITED STATES Rastelli, Luca, Guilford, CT, UNITED STATES

Burgess, Catherine E., Wethersfield, CT, UNITED STATES Majumder, Kumud, Stamford, CT, UNITED STATES Shimkets, Richard, West Haven, CT, UNITED STATES Mishra, Vishnu, Branford, CT, UNITED STATES Vernet, Corine, North Branford, CT, UNITED STATES Szekeres, Edward S., Branford, CT, UNITED STATES Grosse, William M., Branford, CT, UNITED STATES Alsobrook, John P., II, Madison, CT, UNITED STATES Liu, Xiaohong, Branford, CT, UNITED STATES Gerlach, Valerie L., Branford, CT, UNITED STATES Ellerman, Karen, Branford, CT, UNITED STATES Smithson, Glennda, Branford, CT, UNITED STATES Peyman, John, New Haven, CT, UNITED STATES Stone, David, Guilford, CT, UNITED STATES MacDougall, John, Hamden, CT, UNITED STATES

	NUMBER	KIND DATE	
PATENT INFORMATION: APPLICATION INFO.:			(9)
APPLICATION INTO			(2)
	NUMBER	DATE	
PRIORITY INFORMATION:	US 2000-225692P	20000816 (60)	
	US 2000-225693P	20000816 (60)	
	US 2000-225837P	20000816 (60)	
	US 2000-226236P	20000818 (60)	
	US 2000-226353P	20000818 (60)	
	US 2000-227085P	20000822 (60)	
	US 2000-227395P	20000823 (60)	
	US 2000-227492P	20000824 (60)	
	US 2000-227600P	20000824 (60)	
	US 2001-275952P	20010314 (60)	
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MINTZ, LEVIN, COH	N, FERRIS, GLOVE	KY, AND POPEO, P.C.,
	ONE FINANCIAL CEN	NTER, BOSTON, MA,	02111
NUMBER OF CLAIMS:	49		

EXEMPLARY CLAIM: LINE COUNT: 9358

T₁2 ANSWER 2 OF 193 USPATFULL on STN

TΙ Methods of treatment of periodontal disease

AB Purified BMP-2 and BMP-4 proteins and processes for producing them are disclosed. The proteins may be used in the treatment of bone and cartilage defects and in wound healing and related tissue repair.

ACCESSION NUMBER: 2004:13394 USPATFULL

Methods of treatment of periodontal disease TITLE: INVENTOR (S):

Wang, Elizabeth, Carlisle, MA, UNITED STATES Wozney, John M., Hudson, MA, UNITED STATES Rosen, Vicki A., Brookline, MA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004009916	A1	20040115	
APPLICATION INFO.:	US 2003-397214	A1	20030327	(10)

Continuation of Ser. No. US 2001-804625, filed on 9 Mar RELATED APPLN. INFO.:

2001, PENDING Continuation of Ser. No. US 1997-925779, filed on 9 Sep 1997, GRANTED, Pat. No. US 6245889 Continuation of Ser. No. US 1991-721847, filed on 14 Jun 1991, GRANTED, Pat. No. US 6150328

Continuation-in-part of Ser. No. US 1990-493272, filed on 14 Mar 1990, ABANDONED Continuation-in-part of Ser.

No. US 1989-406217, filed on 12 Sep 1989, ABANDONED Continuation-in-part of Ser. No. US 1989-378537, filed

on 11 Jul 1989, GRANTED, Pat. No. US 5166058

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow,, Garrett & Dunner,

L.L.P., 1300 I Street, N.W., Washington, DC, 20005-3315

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 7 Drawing Page(s)

LINE COUNT: 1876

L2 ANSWER 3 OF 193 USPATFULL on STN

TI Chondrogenic and osteogenic inducing molecule

AB The present invention is directed to methods of using and compositions comprising amelogenin peptides capable of inducing chondrogenesis and osteogenesis when implanted in vivo, a chondrogenesis in cultures in vitro. Compositions and methods of enhancing bone and cartilage growth using these peptides are described.

ACCESSION NUMBER: 2004:9593 USPATFULL

TITLE: Chondrogenic and osteogenic inducing molecule

INVENTOR(S): Veis, Arthur, Skokie, IL, United States

Nebgen, Denise R., Houston, TX, United States

PATENT ASSIGNEE(S): Northwestern University, Evanston, IL, United States

(U.S. corporation)

NUMBER DATE

PRIORITY INFORMATION: US 1998-94489P 19980729 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED

FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Mertz, Prema

LEGAL REPRESENTATIVE: Marshall, Gerstein & Borun LLP

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 16 Drawing Figure(s); 16 Drawing Page(s)

LINE COUNT: 1877

L2 ANSWER 4 OF 193 USPATFULL on STN

Treatment of inflammatory bowel disease using growth factors TΙ The present invention is based upon methods of treating inflammatory AB conditions in the intestinal tract of mammals using growth factor related polypeptides. The invention includes methods of reducing the mortality rate or delaying mortality in a subject suffering from an inflammatory pathology. Methods of using fibroblast growth factor-CX (FGF-CX) polynucleotides sequences and the FGF-CX polypeptides encoded by such nucleic acid sequence, or variants, fragments and homologs thereof, are claimed in the invention. Similarly, methods of using FCTRX polynucleotide sequences and the FCTRX polypeptides encoded by such nucleic acid sequences, or variants, fragments and homologs thereof, alone or in combination, are also claimed in the invention. FCTRX collectively refers to any of six variant FCTRX sequences, variously designated FCTR1, FCTR2, FCTR3, FCTR4, FCTR5 and FCTR6.

ACCESSION NUMBER: 2004:7775 USPATFULL

TITLE: Treatment of inflammatory bowel disease using growth

factors

INVENTOR(S):

Boldog, Ferenc L., North Haven, CT, UNITED STATES Burgess, Catherine E., Wethersfield, CT, UNITED STATES Fernandes, Elma R., Branford, CT, UNITED STATES Jeffers, Michael E., Branford, CT, UNITED STATES LaRochelle, William J., Madison, CT, UNITED STATES Lichenstein, Henri S., Guilford, CT, UNITED STATES Peterson, Jeffrey, Brookfield, CT, UNITED STATES Prayaga, Sudhirdas K., O'Fallon, MO, UNITED STATES Rittman, Beth, Colchester, CT, UNITED STATES Shimkets, Juliette B., Guilford, CT, UNITED STATES Shimkets, Richard A., Guilford, CT, UNITED STATES Yang, Meijia, East Lyme, CT, UNITED STATES

NUMBER KIND _____

PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.:

US 2004006015 A1 20040108 US 2002-321962 A1 20021216 (10) Continuation-in-part of Ser. No. US 2001-11364, filed

on 16 Nov 2001, PENDING

NUMBER DATE ______

PRIORITY INFORMATION:

US 2002-386545P 20020606 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: MINTZ, LEVIN, COHN, FERRIS, GLOVSKY, AND POPEO, P.C.,

ONE FINANCIAL CENTER, BOSTON, MA, 02111

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

67 1

NUMBER OF DRAWINGS:

73 Drawing Page(s)

LINE COUNT:

7115

ANSWER 5 OF 193 USPATFULL on STN L2

Proteins and nucleic acids encoding same ΤI

Disclosed are polypeptides and nucleic acids encoding same. Also AB disclosed are vectors, host cells, antibodies and recombinant methods for producing the polypeptides and polynucleotides, as well as methods for using same.

ACCESSION NUMBER:

TITLE:

INVENTOR(S):

2004:7342 USPATFULL

Proteins and nucleic acids encoding same

Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES

Li, Li, Branford, CT, UNITED STATES

Patturajan, Meera, Branford, CT, UNITED STATES Shimkets, Richard A., Guilford, CT, UNITED STATES Casman, Stacie J., North Haven, CT, UNITED STATES Malyankar, Uriel M., Branford, CT, UNITED STATES Tchernev, Velizar T., Branford, CT, UNITED STATES Vernet, Corine A., North Branford, CT, UNITED STATES Spytek, Kimberly A., New Haven, CT, UNITED STATES Shenoy, Suresh G., Branford, CT, UNITED STATES Alsobrook, John P., II, Madison, CT, UNITED STATES Edinger, Schlomit, New Haven, CT, UNITED STATES Peyman, John A., New Haven, CT, UNITED STATES Stone, David J., Guilford, CT, UNITED STATES Ellerman, Karen, Branford, CT, UNITED STATES Gangolli, Esha A., Madison, CT, UNITED STATES Boldog, Ferenc L., North Haven, CT, UNITED STATES Colman, Steven D., Guilford, CT, UNITED STATES Eisen, Andrew, Rockville, MD, UNITED STATES

Liu, Xiaohong, Lexington, MA, UNITED STATES Padigaru, Muralidhara, Branford, CT, UNITED STATES

Spaderna, Steven K., Berlin, CT, UNITED STATES

Zerhusen, Bryan D., Branford, CT, UNITED STATES

	NUMBER KIND DATE
PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:	US 2004005576 A1 20040108 US 2002-231913 A1 20020830 (10) Continuation of Ser. No. US 2001-10680, filed on 6 Dec 2001, PENDING
	NUMBER DATE
PRIORITY INFORMATION:	US 2000-251660P 20001206 (60) US 2001-260326P 20010108 (60) US 2001-318712P 20010912 (60) US 2000-255029P 20001212 (60) US 2001-263800P 20010124 (60) US 2001-286183P 20010424 (60) US 2001-269942P 20010220 (60) US 2001-313627P 20010820 (60)
DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	MINTZ, LEVIN, COHN, FERRIS, GLOVSKY, AND POPEO, P.C., ONE FINANCIAL CENTER, BOSTON, MA, 02111
NUMBER OF CLAIMS:	41
EXEMPLARY CLAIM:	1
LINE COUNT:	17887
encoding them, a disclosed. The p least 70% identi 258-370 of SEQ I disclosed. The p can be used in t	
ACCESSION NUMBER:	2004:2119 USPATFULL
TITLE: INVENTOR(S):	Growth factor homolog ZVEGF4 Gilbert, Teresa, Seattle, WA, UNITED STATES Hart, Charles E., Woodinville, WA, UNITED STATES Sheppard, Paul O., Granite Falls, WA, UNITED STATES Gilbertson, Debra G., Seattle, WA, UNITED STATES
	NUMBER KIND DATE
APPLICATION INFO.:	US 2004002140 A1 20040101 US 2001-876813 A1 20010606 (9) Division of Ser. No. US 2000-564595, filed on 3 May 2000, GRANTED, Pat. No. US 6495668
	NUMBER DATE
PRIORITY INFORMATION:	US 1999-164463P 19991110 (60) US 2000-180169P 20000204 (60)
DOCUMENT TYPE: FILE SEGMENT: LEGAL REPRESENTATIVE:	Utility APPLICATION Gary E. Parker, ZymoGenetics, Inc., Patent Department,
NUMBER OF CLAIMS:	1201 Eastlake Avenue East, Seattle, WA, 98102
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	

LINE COUNT: 5092

L2 ANSWER 7 OF 193 USPATFULL on STN

TI Bone morphogenic protein polynucleotides, polypeptides, and antibodies

The present invention relates to novel human BMP polypeptides and isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human BMP polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human BMP polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:318756 USPATFULL

TITLE: Bone morphogenic protein polynucleotides, polypeptides,

and antibodies

INVENTOR(S): Young, Paul E., Gaithersburg, MD, UNITED STATES

Ruben, Steven M., Brookeville, MD, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003224501	A1	20031204	
APPLICATION INFO.:	US 2003-366345	A1	20030214	(10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2003-345236, filed

on 16 Jan 2003, PENDING Continuation-in-part of Ser.
No. US 2001-809269, filed on 16 Mar 2001, ABANDONED
Continuation-in-part of Ser. No. WO 2001-US9229, filed

on 23 Mar 2001, PENDING

		NUMBER	DATE	
PRIORITY INFORMAT	ION: US	2002-356749P	20020215	(60)
	US	2000-190067P	20000317	(60)
	US	2002-348621P	20020117	(60)
	US	2002-349356P	20020122	(60)
	US	2002-351520P	20020128	(60)
	US	2002-354265P	20020206	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 42 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 16963

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 8 OF 193 USPATFULL on STN

TI Sulfonamide compounds

AB This invention relates to certain sulfonamide derivatives that are inhibitors of procollagen C-proteinase, pharmaceutical compositions containing them, methods for their use and methods for preparing these compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:306969 USPATFULL TITLE: Sulfonamide compounds

INVENTOR(S): Billledeau, Roland Joseph, Santa Clara, CA, UNITED

STATES

Broka, Chris Allen, Foster City, CA, UNITED STATES Campbell, Jeffrey Allen, Middletown, CT, UNITED STATES Chen, Jian Jeffrey, Santa Clara, CA, UNITED STATES Dankwardt, Sharon Marie, Foster City, CA, UNITED STATES

Delaet, Nancy, San Diego, CA, UNITED STATES

Robinson, Leslie Ann, San Diego, CA, UNITED STATES Walker, Keith Adrian Murray, Los Altos, CA, UNITED STATES

		NONDER	TCTIVE	DAID	
PATENT	INFORMATION:	US 2003216405	A 1	20031120	

APPLICATION INFO.: US 2002-267727 A1 20021009 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 1999-469660, filed on 22 Dec

1999, GRANTED, Pat. No. US 6492394

MIMBED KIND DATE

DATE NUMBER

PRIORITY INFORMATION:

US 1998-113311P 19981222 (60) US 1999-147053P 19990803 (60)

US 1999-164138P 19991108 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: ROCHE PALO ALTO LLC, 3431 HILLVIEW AVENUE, PATENT

DEPT., M/S A2-250, PALO ALTO, CA, 94304

NUMBER OF CLAIMS: 52 EXEMPLARY CLAIM: 1 LINE COUNT: 3904

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

T₂ ANSWER 9 OF 193 USPATFULL on STN

Composition and method for modulating vasculogenesis or angiogenesis TТ

A method for modulating vasculogenesis or angiogenesis using the core AΒ domain protein of PDGF-C, a new member of the PDGF/VEGF family of growth factors, or a homodimer or a heterodimer comprising the core domain. Also disclosed are pharmaceutical compositions comprising the core protein, nucleotide sequences encoding the protein, and uses thereof in medical and diagnostic applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:300768 USPATFULL ACCESSION NUMBER:

Composition and method for modulating vasculogenesis or TITLE:

angiogenesis

INVENTOR(S): Li, Xuri, Stockholm, SWEDEN

Eriksson, Ulf, Stockholm, SWEDEN Carmeliet, Peter, Leuven, BELGIUM Collen, Desire, Leuven, BELGIUM

PATENT ASSIGNEE(S): Ludwig Institute for Cancer Research (non-U.S.

corporation)

NUMBER KIND DATE _____ US 2003211994 A1 20031113 US 2002-303997 A1 20021126 (10) PATENT INFORMATION:

APPLICATION INFO.:

Continuation-in-part of Ser. No. US 1999-410349, filed RELATED APPLN. INFO.:

on 30 Sep 1999, PENDING

			NUMBER	DATE	
PRIORITY	INFORMATION:	US	1998-102461P	19980930	(60)
		US	1998-108109P	19981112	(60)
		US	1998-110749P	19981203	(60)
		US	1998-113002P	19981218	(60)
		US	1999-135426P	19990521	(60)
		US	1999-144022P	19990715	(60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

CROWELL & MORING LLP, INTELLECTUAL PROPERTY GROUP, P.O. LEGAL REPRESENTATIVE:

BOX 14300, WASHINGTON, DC, 20044-4300

NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 42 Drawing Page(s)

LINE COUNT: 2790

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 10 OF 193 USPATFULL on STN

TI OSTEOPROTEGERIN

The present invention discloses a novel secreted polypeptide, termed osteoprotegerin, which is a member of the tumor necrosis factor receptor superfamily and is involved in the regulation of bone metabolism. Also disclosed are nucleic acids encoding osteoprotegerin, polypeptides, recombinant vectors and host cells for expression, antibodies which bind OPG, and pharmaceutical compositions. The polypeptides are used to treat bone diseases characterized by increased resorption such as osteoporosis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:294810 USPATFULL

TITLE: OSTEOPROTEGERIN

INVENTOR(S): BOYLE, WILLIAM J., MOORPARK, CA, UNITED STATES

LACEY, DAVID L., THOUSAND OAKS, CA, UNITED STATES

CALZONE, FRANK J., WEST LAKE VILLAGE, CA, UNITED STATES

CHANG, MING-SHI, NEWBURY PARK, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003207827 A1 20031106 APPLICATION INFO.: US 1999-405032 A1 19990924 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1998-132985, filed on 12

Aug 1998, PENDING Continuation of Ser. No. US 1996-771777, filed on 20 Dec 1996, ABANDONED

Continuation-in-part of Ser. No. US 1996-706945, filed

on 3 Sep 1996, GRANTED, Pat. No. US 6369027

Continuation-in-part of Ser. No. US 1995-577788, filed

on 22 Dec 1995, PENDING

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: AMGEN INCORPORATED, MAIL STOP 27-4-A, ONE AMGEN CENTER

DRIVE, THOUSAND OAKS, CA, 91320-1799

NUMBER OF CLAIMS: 60 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 46 Drawing Page(s)

LINE COUNT: 5457

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'MEDLINE, USPATFULL, BIOSIS, FSTA, WPIDS, JAPIO, JICST-EPLUS, EMBASE, DGENE, BIOBUSINESS' ENTERED AT 12:23:20 ON 16 JAN 2004

L1 2849 S ALBUMIN FUSION PROTEIN

L2 193 S BMP-1 AND ALBUMIN

L3 0 S L2 AND L1

=> s l1 and FGF-16

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                INPADOC: Legal Status data reloaded
        SEP 29 DISSABS now available on STN
NEWS 5
NEWS 6
        OCT 10 PCTFULL: Two new display fields added
NEWS 7
        OCT 21 BIOSIS file reloaded and enhanced
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
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                 in REGISTRY
        DEC 09
                STN Entry Date available for display in REGISTRY and CA/CAplus
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                DGENE: Two new display fields added
        DEC 18
NEWS 15
                BIOTECHNO no longer updated
NEWS 16 DEC 19
                CROPU no longer updated; subscriber discount no longer
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NEWS 17 DEC 22
                Additional INPI reactions and pre-1907 documents added to CAS
                 databases
NEWS 18 DEC 22
                IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN
NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
             MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
             AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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             CAS World Wide Web Site (general information)
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=> file medline, uspatful, dgene, embase, wpids, fsta, jicst, biosis COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:39:04 ON 16 JAN 2004

FILE 'USPATFULL' ENTERED AT 12:39:04 ON 16 JAN 2004
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FILE 'JICST-EPLUS' ENTERED AT 12:39:04 ON 16 JAN 2004 COPYRIGHT (C) 2004 Japan Science and Technology Agency (JST)

FILE 'BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004 COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

=> s Rantes

L1 13014 RANTES

=> s albumin fusion protein

L2 2849 ALBUMIN FUSION PROTEIN

=> s 11 and 12

L3 8 L1 AND L2

=> d 13 ti abs ibib tot

L3 ANSWER 1 OF 8 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

ACCESSION NUMBER:

2004:13611 USPATFULL

TITLE:

Albumin fusion proteins

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004010134	A1	20040115	
APPLICATION INFO.:	US 2001-833245	A1	20010412	(9)

NUMBER DATE

PRIORITY INFORMATION:

US 2000-256931P 20001221 (60)

US 2000-199384P 20000425 (60)

US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 25066

L3 ANSWER 2 OF 8 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:312278 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

Haseltine, William A., Washington, DC, UNITED STATES

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 15415

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 8 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2003:282700 USPATFULL

TITLE:

Albumin fusion proteins

INVENTOR(S):

Ballance, David J., Berwyn, PA, UNITED STATES Sleep, Darrell, West Bridgford, UNITED KINGDOM Prior, Christopher P., Rosemont, PA, UNITED STATES Sadeghi, Homayoun, Doylestown, PA, UNITED STATES Turner, Andrew J., Eagleville, PA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION: US	2003199043	A1	20031023	
APPLICATION INFO.: US	3 2001-832501	A1	20010412	(9)

NUMBER DATE -----

PRIORITY INFORMATION: US 2000-256931P 20001221 (60)

US 2000-199384P 20000425 (60)

US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 14339

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 8 USPATFULL on STN 1.3

TI Neutrokine-alpha and neutrokine-alpha splice variant

AΒ The present invention relates to nucleic acid molecules encoding Neutrokine-alpha and/or Neutrokine-alphaSV polypeptides, including soluble forms of the extracellular domain. Neutrokine-alpha and/or Neutrokine-alphaSV polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to antibodies or portions thereof that specifically bind Neutrokine-alpha and/or Neutrokine-alphaSV and diagnostic and therapeutic methods using these antibodies. Also provided are diagnostic methods for detecting immune system-related disorders and therapeutic methods for treating immune system-related disorders using the compositions of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:250423 USPATFULL

TITLE: Neutrokine-alpha and neutrokine-alpha splice variant

INVENTOR(S):

Yu, Guo-Liang, Berkeley, CA, UNITED STATES

Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

Ni, Jian, Germantown, MD, UNITED STATES

Rosen, Craig A., Laytonsville, MD, UNITED STATES Ullrich, Stephen, Rockville, MD, UNITED STATES Laird, Michael, Germantown, MD, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD, UNITED PATENT ASSIGNEE(S):

STATES (U.S. corporation)

NUMBER KIND DATE -----

US 2003175208 A1 20030918 US 2002-270487 A1 20021016 (10) PATENT INFORMATION: APPLICATION INFO.:

Continuation-in-part of Ser. No. US 2001-929493, filed RELATED APPLN. INFO.: on 15 Aug 2001, PENDING Continuation-in-part of Ser. No. US 2000-588947, filed on 8 Jun 2000, ABANDONED

Continuation-in-part of Ser. No. US 2000-589285, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No.

US 2000-589286, filed on 8 Jun 2000, PENDING

Continuation-in-part of Ser. No. US 2000-589287, filed

on 8 Jun 2000, GRANTED, Pat. No. US 6403770 Continuation-in-part of Ser. No. US 2000-589288, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-507968, filed on 22 Feb 2000, PENDING Continuation-in-part of Ser. No. US 1999-255794, filed on 23 Feb 1999, PENDING Continuation-in-part of Ser. No. US 2000-588947, filed on 8 Jun 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-589285, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-589286, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-589288, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-507968, filed on 22 Feb 2000, PENDING Continuation-in-part of Ser. No. US 1999-255794, filed on 23 Feb 1999, PENDING Continuation-in-part of Ser. No. US 1998-5874, filed on 12 Jan 1998, PENDING Continuation-in-part of Ser. No. WO 1996-US17957, filed on 25 Oct 1996, PENDING Continuation-in-part of Ser. No. US 1999-255794, filed on 23 Feb 1999, PENDING Continuation-in-part of Ser. No. US 1998-5874, filed on 12 Jan 1998, PENDING

PRIORITY INFORMATION:

NUMBER DATE US 2001-329508P 20011017 (60) 20011018 (60) US 2001-329747P 20011031 (60) US 2001-330835P 20011116 (60) US 2001-331478P 20011207 (60) US 2001-336726P 20020401 (60) US 2002-368548P 20000815 (60) US 2000-225628P 20000823 (60) US 2000-227008P US 2000-234338P 20000922 (60) 20001017 (60) US 2000-240806P US 2000-250020P 20001130 (60) 20010316 (60) US 2001-276248P 20010525 (60) US 2001-293499P 20010607 (60) US 2001-296122P US 2001-304809P 20010713 (60) 19990302 (60) US 1999-122388P 19990312 (60) US 1999-124097P 19990326 (60) US 1999-126599P 19990402 (60) US 1999-127598P 19990416 (60) US 1999-130412P 19990423 (60) US 1999-130696P 19990427 (60) US 1999-131278P US 1999-131673P 19990429 (60) US 1999-136784P 19990528 (60) 19990706 (60) US 1999-142659P 19990727 (60) US 1999-145824P US 1999-167239P 19991124 (60) US 1999-168624P 19991203 (60) 19991216 (60) US 1999-171108P 19991223 (60) US 1999-171626P US 2000-176015P 20000114 (60) 19990302 (60) US 1999-122388P 19990312 (60) US 1999-124097P 19990326 (60) US 1999-126599P 19990402 (60) US 1999-127598P US 1999-130412P 19990416 (60) US 1999-130696P 19990423 (60) 19990427 (60) US 1999-131278P US 1999-131673P 19990429 (60) US 1999-136784P 19990528 (60)

19990706 (60) US 1999-142659P US 1999-145824P 19990727 (60) US 1999-167239P 19991124 (60) US 1999-168624P 19991203 (60) US 1999-171108P 19991216 (60) US 1999-171626P 19991223 (60) US 2000-176015P 20000114 (60) US 1997-36100P 19970114 (60)

DOCUMENT TYPE: Utility

APPLICATION FILE SEGMENT:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 44 EXEMPLARY CLAIM:

27 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 18884

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 5 OF 8 USPATFULL on STN T.3

ТT Albumin fusion proteins

AΒ The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:244853 USPATFULL ACCESSION NUMBER: Albumin fusion proteins TITLE:

Rosen, Craig A., Laytonsville, MD, UNITED STATES INVENTOR(S): Sadeghi, Homayoun, Doylestown, PA, UNITED STATES Prior, Christopher P., Rosemont, PA, UNITED STATES

Turner, Andrew J., Eagleville, PA, UNITED STATES

NUMBER KIND DATE ----- -----US 2003171267 A1 20030911 US 2001-833117 A1 20010412 (9) PATENT INFORMATION: APPLICATION INFO.:

> DATE NUMBER ______

US 2000-256931P PRIORITY INFORMATION: 20001221 (60) US 2000-199384P 20000425 (60) US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 20 Drawing Page(s)

LINE COUNT: 13208

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 6 OF 8 USPATFULL on STN L3

Chemokine beta-1 fusion proteins TI

The present invention relates to novel chemokine polypeptides and AB encoding nucleic acids. More specifically, therapeutic compositions and methods are provided using isolated nucleic acid molecules encoding a

human chemokine beta-1 (Ck.beta.-1 or Ckb1) polypeptide (previously termed monocyte-colony inhibitory factor (M-CIF), MIP1-.gamma., and Hemofiltrate CC chemokine-1 (HCC-1)), and Ckbl polypeptides themselves, as are vectors, host cells and recombinant methods for producing the same. Also provided are methods of treating, preventing, ameliorating diseases using such compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:206834 USPATFULL

TITLE:

Chemokine beta-1 fusion proteins

INVENTOR(S):

Bell, Adam, Germantown, MD, UNITED STATES Ruben, Steven M., Olney, MD, UNITED STATES

NUMBER KIND DATE ______ US 2003143191 A1 20030731 US 2002-153604 A1 20020524 (10) PATENT INFORMATION: APPLICATION INFO.:

> NUMBER DATE

PRIORITY INFORMATION: US 2001-293212P 20010525 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 21 Drawing Page(s)
15446
TO THIS PATENT. CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 7 OF 8 USPATFULL on STN L3

ΤI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid AΒ molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:181414 USPATFULL Albumin fusion proteins

INVENTOR(S):

TITLE:

Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

NUMBER KIND DATE _____ US 2003125247 A1 20030703 US 2001-833041 A1 20010412 (9) PATENT INFORMATION: APPLICATION INFO.:

> DATE NUMBER _____

PRIORITY INFORMATION:

US 2000-256931P 20001221 (60) US 2000-199384P 20000425 (60) US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

AB

NUMBER OF DRAWINGS: 20 Drawing Page(s)

LINE COUNT: 15235

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 8 USPATFULL on STN

TI Binding polypeptides and methods based thereon

Binding polypeptides that specifically bind BLyS protein or BLyS-like polypeptides can be used in methods of the invention for detecting, diagnosing, or prognosing a disease or disorder associated with aberrant BLyS or BLyS receptor expression or inappropriate function of BLyS or BLyS receptor, comprising BLyS binding polypeptides or fragments or variants thereof, that specifically bind to BLyS. The present invention further relates to methods and compositions for preventing, treating or ameliorating a disease or disorder associated with aberrant BLyS or BLyS receptor expression or inappropriate BLyS function or BLyS receptor function, comprising administering to an animal, preferably a human, an effective amount of one or more BLyS binding polypeptides or fragments or variants thereof, that specifically bind to BLyS.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:133480 USPATFULL

TITLE: Binding polypeptides and methods based thereon INVENTOR(S): Beltzer, James P., Carlisle, MA, UNITED STATES

Detter M Deriel INITED CTATES

Potter, M. Daniel, UNITED STATES

Potter, Marilou, Acton, MA, UNITED STATES LR Fleming, Tony J., Waltham, MA, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER DATE

PRIORITY INFORMATION: US 2000-226700P 20000818 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Leon R. Yankwich, Esq., Yankwich & Associates, 130

Bishop Allen Drive, Cambridge, MA, 02139

NUMBER OF CLAIMS: 71
EXEMPLARY CLAIM: 1
LINE COUNT: 11834

PATENT INFORMATION: APPLICATION INFO::

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

L1 13014 S RANTES

L2 2849 S ALBUMIN FUSION PROTEIN

L3 8 S L1 AND L2

=> s FGF-8

L4 1364 FGF-8

=> s 14 and albumin

L5 509 L4 AND ALBUMIN

=> s 15 and fusion

491 L5 AND FUSION

=> d 16 and 11

L1 IS NOT VALID HERE

For an explanation, enter "HELP DISPLAY".

=> s 16 and 11

207 L6 AND L1

=> s 17 and stabilizer

0 L7 AND STABILIZER

=> d 17 ti abs ibib 1-10

ANSWER 1 OF 207 USPATFULL on STN L7

ΤI Albumin fusion proteins

The present invention encompasses albumin fusion AB proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

ACCESSION NUMBER: 2004:13611 USPATFULL TITLE: Albumin fusion proteins

Rosen, Craig A., Laytonsville, MD, UNITED STATES INVENTOR(S):

Haseltine, William A., Washington, DC, UNITED STATES

KIND DATE NUMBER -----US 2004010134 A1 20040115 US 2001-833245 A1 20010412 (9) PATENT INFORMATION: APPLICATION INFO.:

NUMBER DATE -----US 2000-256931P 20001221 (60) US 2000-199384P 20000425 (60) PRIORITY INFORMATION: US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT:

ANSWER 2 OF 207 USPATFULL on STN 1.7

TТ 53 human secreted proteins

The present invention relates to novel human secreted proteins and AB isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

ACCESSION NUMBER: 2004:13609 USPATFULL TITLE:

INVENTOR(S):

53 human secreted proteins

Rosen, Craig A., Laytonsville, MD, UNITED STATES Brewer, Laurie A., St. Paul, MN, UNITED STATES Duan, Roxanne D., Bethesda, MD, UNITED STATES Ruben, Steven M., Olney, MD, UNITED STATES Florence, Kimberly A., Rockville, MD, UNITED STATES

Greene, John M., Gaithersburg, MD, UNITED STATES
Young, Paul E., Gaithersburg, MD, UNITED STATES
Ferrie, Ann M., Painted Post, NY, UNITED STATES
Yu, Guo-Liang, Berkeley, CA, UNITED STATES
Florence, Charles, Rockville, MD, UNITED STATES
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
Olsen, Henrik, Gaithersburg, MD, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.:

PRIORITY INFORMATION:

US 2004010132 A1 20040115 US 2001-984429 A1 20011030 (9)

APPLICATION INFO.: US 2001-984429 A1 20011030 (9) RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 19

Continuation-in-part of Ser. No. US 1999-288143, filed on 8 Apr 1999, GRANTED, Pat. No. US 6433139

Continuation-in-part of Ser. No. WO 1998-US21142, filed

on 8 Oct 1998, PENDING

NUMBER DATE

US 2000-244591P 20001101 (60)
US 1997-61463P 19971009 (60)
US 1997-61529P 19971009 (60)
US 1997-61527P 19971009 (60)
US 1997-61536P 19971009 (60)
US 1997-61532P 19971009 (60)
US 1997-61532P 19971009 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Page(s)

LINE COUNT: 27480

L7 ANSWER 3 OF 207 USPATFULL on STN

TI 7 Human ovarian and ovarian cancer associated proteins

This invention relates to newly identified ovarian or ovarian cancer related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "ovarian cancer antigens", and the use of such ovarian antigens for detecting disorders of the reproductive system, particularly the presence of ovarian cancer and ovarian cancer metastases. This invention relates to ovarian cancer antigens as well as vectors, host cells, antibodies directed to ovarian cancer antigens and the recombinant methods and synthetic methods for producing the same. Also provided are diagnostic methods for detecting, treating, preventing and/or prognosing disorders related to the ovary, including ovarian cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of ovarian cancer antigens of the invention. The present invention further relates to inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:13598 USPATFULL

INVENTOR(S):

TITLE:

AB

7 Human ovarian and ovarian cancer associated proteins Birse, Charles E., North Potomac, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER KIND DATE _____

US 2004010121 A1 20040115 US 2003-333900 A1 20030124 PATENT INFORMATION: A1 20030124 (10) APPLICATION INFO.:

> WO 2001-US8585 20010316

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 16023 LINE COUNT:

AB

ANSWER 4 OF 207 USPATFULL on STN Ь7

Nucleic acids, proteins, and antibodies ΤI

The present invention relates to novel polynucleotides associated with the plasma membrane, the polypeptides encoded by these polynucleotides herein collectively referred to as "plasma membrane associated antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such plasma membrane associated polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders related to these novel polypeptides. More specifically, isolated nucleic acid molecules are provided encoding novel plasma membrane associated polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing these plasma membrane associated polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the novel polypeptides of the invention. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

2004:12971 USPATFULL ACCESSION NUMBER:

Nucleic acids, proteins, and antibodies TITLE:

Birse, Charles E., North Potomac, MD, UNITED STATES INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER KIND DATE -----US 2004009491 A1 20040115 US 2002-264237 A1 20021004 (10)

APPLICATION INFO.: RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US16450, filed

on 18 May 2001, PENDING

NUMBER DATE _______

US 2000-205515P 20000519 (60) PRIORITY INFORMATION:

Utility DOCUMENT TYPE: FILE SEGMENT: APPLICATION

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 18144

PATENT INFORMATION:

ANSWER 5 OF 207 USPATFULL on STN Nucleic acids, proteins, and antibodies ΤI

AΒ The present invention relates to novel musculoskeletal system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "musculoskeletal system antigens," and the use of such musculoskeletal system antigens for detecting disorders of the musculoskeletal system, particularly the presence of cancer and cancer metastases. More specifically, isolated musculoskeletal system associated nucleic acid molecules are provided encoding novel musculoskeletal system associated polypeptides. Novel musculoskeletal system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human musculoskeletal system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the musculoskeletal system, including cancer of musculoskeletal tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:12968 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES Human Genome Sciences, Inc., Rockville, MD, UNITED

DATE

PATENT ASSIGNEE(S):

STATES, 20850 (U.S. corporation)

KIND DATE NUMBER

PATENT INFORMATION: APPLICATION INFO.:

US 2004009488 A1 20040115 US 2002-242515 A1 20020913 (10) Continuation of Ser. No. US 2001-764877, filed on 17

RELATED APPLN. INFO.:

Jan 2001, PENDING

NUMBER

PRIORITY INFORMATION:

US	2000-179065P	20000131	(60)
US	2000-180628P	20000204	(60)
US	2000-214886P	20000628	(60)
US	2000-217487P	20000711	(60)
US	2000-225758P	20000814	(60)
US	2000-220963P	20000726	(60)
US	2000-217496P	20000711	(60)
US	2000-225447P	20000814	(60)
US	2000-218290P	20000714	(60)
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US	2000-226868P	20000822	(60)
US	2000-216647P	20000707	(60)
US	2000-225267P	20000814	(60)
US	2000-216880P	20000707	(60)
US	2000-225270P	20000814	(60)
US	2000-251869P	20001208	(60)
US	2000-235834P	20000927	(60)
US	2000-234274P	20000921	(60)
US	2000-234223P	20000921	(60)
US	2000-228924P	20000830	(60)
US	2000-224518P	20000814	(60)
US	2000-236369P	20000929	(60)
US	2000-224519P	20000814	(60)
US	2000-220964P	20000726	(60)
US	2000-241809P	20001020	(60)
US	2000-249299P	20001117	(60)
US	2000-236327P	20000929	(60)
US	2000-241785P	20001020	(60)
US	2000-244617P	20001101	(60)

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	2000-225268P	20000814	(60)
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US	2000-251856P	20001208	(60)
US	2000-251868P	20001208	(60)
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US	2000-229287P	20000901	(60)
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US	2000-231413P	20000908	(60)
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US	2000-236367P	20000929	(60)
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US	2000-246532P		(60)
US	2000-249216P	20001117	(60)
US	2000-249210P	20001117	(60)
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US	2000-225213P	20000814	(60)
US	2000-227182P	20000822	(60)
US	2000-225214P	20000814	(60)
US	2000-235836P	20000927	(60)
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us us	2000-215135P	20000906 20000630	(60) (60)
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Utility
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DOCUMENT TYPE:

FILE SEGMENT:

AΒ

APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 32038

L7 ANSWER 6 OF 207 USPATFULL on STN

TI Apoptosis inducing molecule II and methods of use

The present invention relates to a novel member of the TNF-Ligand superfamily. More specifically, isolated nucleic acid molecules are provided encoding a human Apoptosis Inducing Molecule II (AIM II). AIM II polypeptides are also provided, as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of AIM II activity. Also provided are therapeutic methods for treating lymphadenopathy, aberrant bone development, autoimmune and other immune system diseases, graft versus host disease, rheumatoid arthritis, osteoarthritis and to inhibit neoplasia, such as tumor cell growth.

ACCESSION NUMBER: 2004:12629 USPATFULL

TITLE: Apoptosis inducing molecule II and methods of use INVENTOR(S): Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

EDNer, Reinnard, Galthersburg, MD, UNITED STATES

Yu, Guo-Liang, Berkeley, CA, UNITED STATES Ruben, Steven M., Brookeville, MD, UNITED STATES

Zhai, Yifan, Rockville, MD, UNITED STATES

Ullrich, Stephen, Rockville, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc. (U.S. corporation)

PATENT INFORMATION: US 2004009147 A1 20040115
APPLICATION INFO.: US 2003-375680 A1 20030228 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2000-523323, filed

on 10 Mar 2000, GRANTED, Pat. No. US 6635743

Continuation-in-part of Ser. No. US 1999-252656, filed

on 19 Feb 1999, GRANTED, Pat. No. US 6495520

Continuation-in-part of Ser. No. US 1998-27287, filed

on 20 Feb 1998, GRANTED, Pat. No. US 6479254

Continuation-in-part of Ser. No. US 1998-3886, filed on 7 Jan 1998, ABANDONED Continuation-in-part of Ser. No.

US 1997-822953, filed on 21 Mar 1997, ABANDONED

		NUMBER D	ATE
PRIORITY	INFORMATION:	US 2002-360234P 200	20301 (60)
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		US 1999-137457P 199	90604 (60)
		US 1999-124041P 199	90311 (60)
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		US 1996-13923P 199	60322 (60)
		US 1996-30157P 199	61031 (60)
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DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK

AVENUE, N.W., WASHINGTON, DC, 20005

NUMBER OF CLAIMS: 45

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4

AΒ

48 Drawing Page(s)

LINE COUNT: 13322

L7 ANSWER 7 OF 207 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of

polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

ACCESSION NUMBER:

2004:7345 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Birse, Charles E., North Potomac, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER	KIND	DATE
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2004005579	A 1	20040108

PATENT INFORMATION:

US 2004005 US 2002-264049 A1 20021004 (10)

APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US18569, filed

on 7 Jun 2001, PENDING

DATE NUMBER

PRIORITY INFORMATION:

US 2000-209467P 20000607 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

18130

2.4

LINE COUNT:

ANSWER 8 OF 207 USPATFULL on STN L7

Nucleic acids, proteins, and antibodies TI

The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:7343 USPATFULL

TITLE:

AB

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES Barash, Steven C., Rockville, MD, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

NUMBER	KIND	DATE

PATENT INFORMATION:
APPLICATION INFO.:

US 2004005577 A1 20040108 US 2002-242747 A1 20020913 (10)

APPLICATION INFO.:

RELATED APPLN. INFO.:

Continuation of Ser. No. US 2001-764881, filed on 17

Jan 2001, PENDING

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PRIORITY INFORMATION:

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US	2000-214886P	20000628	(60)
US	2000-217487P	20000711	(60)

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20000317 (60) US 2000-190076P US 2000-209467P 20000607 (60) 20000519 (60) US 2000-205515P US 2001-259678P 20010105 (60)

Utility DOCUMENT TYPE: FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 27694 LINE COUNT:

AB

ANSWER 9 OF 207 USPATFULL on STN L7

ΤI Nucleic acids, proteins, and antibodies

The present invention relates to novel cardiovascular system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "cardiovascular system antigens," and the use of such cardiovascular system antigens for detecting disorders of the cardiovascular system, particularly the presence of cancer of cardiovascular system tissues and cancer metastases. More specifically, isolated cardiovascular system associated nucleic acid molecules are provided encoding novel cardiovascular system associated polypeptides. Novel cardiovascular system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human cardiovascular system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the cardiovascular system, including cancer of cardiovascular system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

2004:7341 USPATFULL ACCESSION NUMBER:

PATENT ASSIGNEE(S):

PATENT INFORMATION:

Nucleic acids, proteins, and antibodies TITLE:

Rosen, Craig A., Laytonsville, MD, UNITED STATES INVENTOR(S):

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

KIND DATE NUMBER ______ US 2004005575 A1 20040108 US 2002-227577 A1 20020826 (10)

APPLICATION INFO.: RELATED APPLN. INFO.: Continuation of Ser. No. US 2002-91504, filed on 7 Mar

2002, PENDING Continuation of Ser. No. US 2001-764869,

filed on 17 Jan 2001, ABANDONED

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DOCUMENT TYPE: FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 28742

L7 ANSWER 10 OF 207 USPATFULL on STN

TI 50 human secreted proteins

The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:2568 USPATFULL

TITLE: 50 human secreted proteins

INVENTOR(S): Moore, Paul A., Germantown, MD, UNITED STATES

conditions related to these novel human secreted proteins.

Ruben, Steven M., Olney, MD, UNITED STATES

LaFleur, David W., Washington, DC, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Olsen, Henrik S., Gaithersburg, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Brewer, Laurie A., St. Paul, MN, UNITED STATES

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD (U.S.

corporation)

NUMBER KIND DATE

US 2004002591 A1 20040101

US 2002-47021 A1 20020117 (10)

APPLICATION INFO.: US 2002-47021 A1 20020117 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2000-722329, filed

on 28 Nov 2000, PENDING Continuation of Ser. No. US

1999-262109, filed on 4 Mar 1999, ABANDONED

Continuation-in-part of Ser. No. WO 1998-US18360, filed

on 3 Sep 1998, PENDING

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: 1

PATENT INFORMATION:

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 33379

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

L1 13014 S RANTES

2849 S ALBUMIN FUSION PROTEIN

8 S L1 AND L2

L4 1364 S FGF-8

L5 509 S L4 AND ALBUMIN

L6 491 S L5 AND FUSION

L7 207 S L6 AND L1

L8 0 S L7 AND STABILIZER

=> s fusion partner

L2

L3

L9 6424 FUSION PARTNER

=> s 19 and albumin

L10 2467 L9 AND ALBUMIN

=> s 19 and BMP

L11 176 L9 AND BMP

=> s 111 and 110

L12 141 L11 AND L10

=> s 112 and 11

L13 101 L12 AND L1

=> d 113 ti abs ibib 1-10

L13 ANSWER 1 OF 101 USPATFULL on STN

TI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins.

Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

ACCESSION NUMBER: 2004:13611 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Haseltine, William A., Washington, DC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004010134	A1	20040115	
APPLICATION INFO.:	US 2001-833245	A1	20010412	(9)

			NUMBER	DATE	
PRIORITY	INFORMATION:		2000-256931P 2000-199384P	20001221	/
		US	2000-229358P	20000412	(60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 25066

L13 ANSWER 2 OF 101 USPATFULL on STN

Nucleic acids, proteins, and antibodies тT

The present invention relates to novel polynucleotides associated with the plasma membrane, the polypeptides encoded by these polynucleotides herein collectively referred to as "plasma membrane associated antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such plasma membrane associated polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders related to these novel polypeptides. More specifically, isolated nucleic acid molecules are provided encoding novel plasma membrane associated polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing these plasma membrane associated polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the novel polypeptides of the invention. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

ACCESSION NUMBER:

2004:12971 USPATFULL

TITLE:

AΒ

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Birse, Charles E., North Potomac, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

	NUMBER	KIND	DATE	
US	2004009491	A1	20040115	
ATTO	2002-264237	ז א	20021004	/1

PATENT INFORMATION: APPLICATION INFO.:

20021004 (10) A1

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US16450, filed

on 18 May 2001, PENDING

DATE NUMBER -----

PRIORITY INFORMATION:

US 2000-205515P 20000519 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24 EXEMPLARY CLAIM: 1 LINE COUNT: 18144

L13 ANSWER 3 OF 101 USPATFULL on STN

Nucleic acids, proteins, and antibodies TТ

The present invention relates to novel musculoskeletal system related AΒ polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "musculoskeletal system antigens," and the use of such musculoskeletal system antigens for detecting disorders of the musculoskeletal system, particularly the presence of cancer and cancer metastases. More specifically, isolated musculoskeletal system associated nucleic acid molecules are provided encoding novel musculoskeletal system associated polypeptides. Novel musculoskeletal system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human musculoskeletal system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating,

preventing and/or prognosing disorders related to the musculoskeletal system, including cancer of musculoskeletal tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:12968 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR (S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

PATENT ASSIGNEE(S):

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.:

US 2004009488 A1 20040115

US 2002-242515 A1 20020913 (10)

RELATED APPEN. INFO.: Continuation of Ser. No. US 2001-764877, filed on 17

RELATED APPLN. INFO.:		n 2001, PENDING	s1. NO. US	2001
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US 2000-205515P
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US 2001-259678P
Utility
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DOCUMENT TYPE:

FILE SEGMENT:

AΒ

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

APPLICATION

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 32038

L13 ANSWER 4 OF 101 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the

production and/or function of the polypeptides of the invention.

ACCESSION NUMBER:

2004:7345 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Birse, Charles E., North Potomac, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER	KIND	DATE
2004005579	Α1	20040108

PATENT INFORMATION:

US 2004005579 US 2002-264049 A1 20021004 (10)

APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US18569, filed

on 7 Jun 2001, PENDING

DATE NUMBER

PRIORITY INFORMATION:

US 2000-209467P 20000607 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT:

18130

24

L13 ANSWER 5 OF 101 USPATFULL on STN

Nucleic acids, proteins, and antibodies тT

The present invention relates to novel proteins. More specifically, AB isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:7343 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

NUMBER KIND DATE -----US 2004005577 A1 20040108 US 2002-242747 A1 20020913 (10)

PATENT INFORMATION: APPLICATION INFO.:

PATENT ASSIGNEE(S):

RELATED APPLN. INFO.:

Continuation of Ser. No. US 2001-764881, filed on 17

Jan 2001, PENDING

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US 2000-205515P 20000519 (60) US 2001-259678P 20010105 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 27694

L13 ANSWER 6 OF 101 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

AB The present invention relates to novel

The present invention relates to novel cardiovascular system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "cardiovascular system antigens," and the use of such cardiovascular system antigens for detecting disorders of the cardiovascular system, particularly the presence of cancer of cardiovascular system tissues and cancer metastases. More specifically, isolated cardiovascular system associated nucleic acid molecules are provided encoding novel cardiovascular system associated polypeptides. Novel cardiovascular system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human cardiovascular system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the cardiovascular system, including cancer of cardiovascular system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER: 2004:7341 USPATFULL

PATENT ASSIGNEE(S):

PATENT INFORMATION: APPLICATION INFO.:

TITLE: Nucleic acids, proteins, and antibodies

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

NUMBER KIND DATE

US 2004005575 A1 20040108
US 2002-227577 A1 20020826 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2002-91504, filed on 7 Mar 2002, PENDING Continuation of Ser. No. US 2001-764869,

filed on 17 Jan 2001, ABANDONED

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DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24 EXEMPLARY CLAIM: 1 28742 LINE COUNT:

L13 ANSWER 7 OF 101 USPATFULL on STN

TТ 50 human secreted proteins

The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2004:2568 USPATFULL ACCESSION NUMBER: TITLE: 50 human secreted proteins

INVENTOR(S): Moore, Paul A., Germantown, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

LaFleur, David W., Washington, DC, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Olsen, Henrik S., Gaithersburg, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Brewer, Laurie A., St. Paul, MN, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD (U.S. PATENT ASSIGNEE(S):

corporation)

KIND DATE NUMBER ______ US 2004002591 A1 20040101 US 2002-47021 A1 20020117 (10) PATENT INFORMATION:

APPLICATION INFO.:

Continuation-in-part of Ser. No. US 2000-722329, filed RELATED APPLN. INFO.: on 28 Nov 2000, PENDING Continuation of Ser. No. US

1999-262109, filed on 4 Mar 1999, ABANDONED

Continuation-in-part of Ser. No. WO 1998-US18360, filed

on 3 Sep 1998, PENDING

DATE NUMBER -----PRIORITY INFORMATION: US 2001-262066P 20010118 (60) US 1997-57626P 19970905 (60) US 1997-57663P 19970905 (60) US 1997-57669P 19970905 (60) US 1997-58666P 19970912 (60) US 1997-58667P 19970912 (60) US 1997-58973P 19970912 (60) US 1997-58974P 19970912 (60) US 1998-90112P 19980622 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 33379

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 8 OF 101 USPATFULL on STN

Nucleic acids, proteins, and antibodies TI

AΒ The present invention relates to novel excretory system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "excretory system antigens," and the use of

such excretory system antigens for detecting disorders of the excretory system, particularly the presence of cancer of excretory system tissues and cancer metastases. More specifically, isolated excretory system associated nucleic acid molecules are provided encoding novel excretory system associated polypeptides. Novel excretory system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human excretory system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the excretory system, including cancer of excretory system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:334955 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., Rockville, MD, 20850 (U.S.

corporation)

NUMBER	KIND	DATE	
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PATENT INFORMATION:
APPLICATION INFO.:

US 2003235831 A1 20031225

RELATED APPLN. INFO.:

US 2002-242355 Al 20020913 (10) Continuation of Ser. No. US 2001-764897, filed on 17

Jan 2001, PENDING

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DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 22457

AB

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 9 OF 101 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for

identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:334953 USPATFULL

TITLE: INVENTOR (S): Nucleic acids, proteins, and antibodies Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Birse, Charles E., North Potomac, MD, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD, UNITED

PATENT ASSIGNEE(S):

DATE

STATES (U.S. corporation)

NUMBER

NUMBER KIND DATE _____

PATENT INFORMATION:

US 2003235829 A1 20031225 US 2002-227646 A1 20020826 (10)

APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. US 2001-860670, filed on 21 May 2001, PENDING Continuation-in-part of Ser. No. WO 2001-US1346, filed on 17 Jan 2001, PENDING

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DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 20415

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 10 OF 101 USPATFULL on STN

Novel methods of diagnosis of metastatic colorectal cancer, compositions TТ and methods of screening for modulators of metastatic colorectal cancer

Described herein are methods and compositions that can be used for AB diagnosis and treatment of metastatic colorectal cancer. Also described herein are methods that can be used to identify modulators of metastatic colorectal cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:334944 USPATFULL ACCESSION NUMBER:

Novel methods of diagnosis of metastatic colorectal TITLE:

cancer, compositions and methods of screening for

modulators of metastatic colorectal cancer

Mack, David H., Menlo Park, CA, UNITED STATES INVENTOR(S):

Markowitz, Sanford David, Pepper Pike, OH, UNITED

STATES

PATENT ASSIGNEE(S): Eos Biotechnology, Inc., South San Francisco, CA (U.S.

corporation)

NUMBER KIND DATE ______ US 2003235820 A1 20031225 US 2002-87080 A1 20020227 (10) PATENT INFORMATION:

APPLICATION INFO.:

DATE NUMBER ______

PRIORITY INFORMATION: US 2001-284555P 20010417 (60)

20010402 (60) US 2001-281149P US 2001-272206P 20010227 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO

CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

NUMBER OF CLAIMS: 21 EXEMPLARY CLAIM: 22670 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

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L3 8 S L1 AND L2

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 L8
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 L16
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       ANSWER 1 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 TI
       Fibroblast growth factor family polypeptide which stimulates
       proliferation and growth of hepatocytes is useful for treating hepatic
       disorders -
                               DGENE
 AN
       AAY58432 Protein
       This sequence represents a truncated rat fibroblast growth factor-16
 AB
       (FGF-16) des-N-9, where residues 1-9 of the full-length rat FGF-16
        (AAY58428) have been removed by proteolytic cleavage. FGF-16 has
       hepatocyte proliferation and growth activity, and increases hepatic
       production of triglycerides and serum proteins (e.g., albumin).
       FGF-16 nucleic acids and/or proteins may be used for stimulating
       the proliferation and development of hepatocytes both in vitro and in
       vivo. The isolated nucleic acid molecules may be used directly in cell or
       gene therapy applications to treat or prevent liver disorders, including
       hepatic cirrhosis, fulminant liver failure, damage caused by acute viral
       hepatitis and toxic insults to the liver.
 ACCESSION NUMBER: AAY58432 Protein
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 TITLE:
                   Fibroblast growth factor family polypeptide which stimulates
                   proliferation and growth of hepatocytes is useful for
                   treating hepatic disorders -
INVENTOR:
                   Arakawa T; Itoh N; Danilenko D M; Martin F H
 PATENT ASSIGNEE: (AMGE-N) AMGEN INC.
                               A 19991207
 PATENT INFO:
                   US 5998170
                                                             33p
 APPLICATION INFO: US 1997-943915
                                    19971003
 PRIORITY INFO:
                   US 1997-943915
                                    19971003
                   Patent
 DOCUMENT TYPE:
 LANGUAGE:
                   English
 OTHER SOURCE:
                   2000-085497 [07]
                   Rat truncated fibroblast growth factor FGF-16, des-N-9.
 DESCRIPTION:
       ANSWER 2 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 L16
       Fibroblast growth factor family polypeptide which stimulates
 TI
       proliferation and growth of hepatocytes is useful for treating hepatic
       disorders -
 AN
       AAY58431 Protein
                               DGENE
       This sequence represents a truncated rat fibroblast growth factor-16
 AB
        (FGF-16) des-N-34, where residues 1-34 of the full-length rat FGF-16
        (AAY58428) have been removed by proteolytic cleavage. FGF-16 has
       hepatocyte proliferation and growth activity, and increases hepatic
       production of triglycerides and serum proteins (e.g., albumin).
       FGF-16 nucleic acids and/or proteins may be used for stimulating
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the proliferation and development of hepatocytes both in vitro and in

vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAY58431 Protein DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat truncated fibroblast growth factor FGF-16, des-N-34.

L16 ANSWER 3 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAY58430 peptide DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents an E tag, DNA encoding which was fused to the 3' end of the rat FGF-16 coding region, along with DNA encoding a hexahistidine tag. The tagged rat FGF-16 cDNA was cloned into a baculovirus expression system in an exemplification of the present

invention.

ACCESSION NUMBER: AAY58430 peptide DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: E tag peptide, SEQ ID NO:6.

L16 ANSWER 4 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAY58429 Protein DGENE

This sequence represents human fibroblast growth factor-16 (FGF-16).

FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent

liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAY58429 Protein DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07] CROSS REFERENCES: N-PSDB: AAZ55791

DESCRIPTION: Human fibroblast growth factor FGF-16.

L16 ANSWER 5 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAY58428 Protein DGENE

AB This sequence represents rat fibroblast growth factor-16 (FGF-16). FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin).

FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAY58428 Protein DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07] CROSS REFERENCES: N-PSDB: AAZ55790

DESCRIPTION: Rat fibroblast growth factor FGF-16.

L16 ANSWER 6 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55819 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55818-Z55819 represent oligonucleotides used in the preparation of the construct pAMG21-delta-N34-rFGF-16, comprising a fragment of the rat FGF-16 cDNA sequence, in an exemplification of the

present invention.

ACCESSION NUMBER: AAZ55819 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

DANGUAGE: 2000-085497 [07]

DESCRIPTION: Oligonucleotide SEQ ID NO:32, used to construct

pAMG21-delta-N34-rFGF-16.

L16 ANSWER 7 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55818 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55818-Z55819 represent oligonucleotides used in the preparation of the construct pAMG21-delta-N34-rFGF-16, comprising a fragment of the rat FGF-16 cDNA sequence, in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55818 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Oligonucleotide SEQ ID NO:31, used to construct

pAMG21-delta-N34-rFGF-16.

L16 ANSWER 8 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55817 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure,

vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAY58431 Protein DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat truncated fibroblast growth factor FGF-16, des-N-34.

L16 ANSWER 3 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic

disorders -

AN AAY58430 peptide DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents an E tag, DNA encoding which was fused to the 3' end of the rat FGF-16 coding region, along with DNA encoding a hexahistidine tag. The tagged rat FGF-16 cDNA was cloned into a baculovirus expression system in an exemplification of the present invention.

ACCESSION NUMBER: AAY58430 peptide DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: E tag peptide, SEQ ID NO:6.

L16 ANSWER 4 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAY58429 Protein DGENE

This sequence represents human fibroblast growth factor-16 (FGF-16).

FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent

liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAY58429 Protein DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07] CROSS REFERENCES: N-PSDB: AAZ55791

DESCRIPTION: Human fibroblast growth factor FGF-16.

L16 ANSWER 5 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAY58428 Protein DGENE

This sequence represents rat fibroblast growth factor-16 (FGF-16). FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin).

FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAY58428 Protein DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

disorders -

OTHER SOURCE: 2000-085497 [07] CROSS REFERENCES: N-PSDB: AAZ55790

DESCRIPTION: Rat fibroblast growth factor FGF-16.

L16 ANSWER 6 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic

AN AAZ55819 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55818-Z55819 represent oligonucleotides used in the preparation of the construct pAMG21-delta-N34-rFGF-16, comprising a fragment of the rat FGF-16 cDNA sequence, in an exemplification of the

present invention.

ACCESSION NUMBER: AAZ55819 DNA DGENE

TITLE:

Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H **INVENTOR:**

(AMGE-N) AMGEN INC. PATENT ASSIGNEE:

A 19991207 PATENT INFO: US 5998170 33p

APPLICATION INFO: US 1997-943915 19971003 US 1997-943915 PRIORITY INFO: 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

2000-085497 [07] OTHER SOURCE:

Oligonucleotide SEQ ID NO:32, used to construct DESCRIPTION:

pAMG21-delta-N34-rFGF-16.

L16 ANSWER 7 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates ΤI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55818 DNA DGENE

AB The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55818-Z55819 represent oligonucleotides used in the preparation of the construct pAMG21-delta-N34-rFGF-16, comprising a fragment of the rat FGF-16 cDNA sequence, in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55818 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H **INVENTOR:**

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

US 5998170 A 19991207 PATENT INFO: 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Oligonucleotide SEQ ID NO:31, used to construct

pAMG21-delta-N34-rFGF-16.

ANSWER 8 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates TI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55817 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure,

damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a pAMG21 vector PCR primer used to ascertain that a pAMG21/rat FGF-16 construct had been produced in an

exemplification of the present invention.

ACCESSION NUMBER: AAZ55817 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: pAMG21 vector PCR primer, SEQ ID NO:28.

L16 ANSWER 9 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55816 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55815-Z55816 represent PCR primers used to clone rat FGF-16 cDNA (AAZ55790) into E. coli.

ACCESSION NUMBER: AAZ55816 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat FGF-16 PCR primer, SEQ ID NO:28.

L16 ANSWER 10 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55815 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

Sequences AAZ55815-Z55816 represent PCR primers used to clone rat FGF-16 cDNA (AAZ55790) into E. coli.

ACCESSION NUMBER: AAZ55815 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat FGF-16 PCR primer, SEQ ID NO:27.

L16 ANSWER 11 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic

disorders -

AN AAZ55814 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55813-Z55814 represent PCR primers used to detect human FGF-16 DNA in bacteria which had previously been transformed with a

ACCESSION NUMBER: AAZ55814 DNA DGENE

vector comprising human FGF-16 DNA.

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat FGF-16 PCR primer, SEQ ID NO:26.

L16 ANSWER 12 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55813 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55813-Z55814 represent PCR primers used to detect human

FGF-16 DNA in bacteria which had previously been transformed with a vector comprising human FGF-16 DNA.

ACCESSION NUMBER: AAZ55813 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 PCR primer, SEQ ID NO:25.

L16 ANSWER 13 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55812 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55810-Z55812 represent PCR primers used in a PCR technique similar to 5' RACE (rapid amplification of cDNA ends) for extension and amplification of human genomic FGF-16 DNA sequences.

ACCESSION NUMBER: AAZ55812 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat FGF-16 genomic PCR primer, SEQ ID NO:24.

L16 ANSWER 14 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55811 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55810-Z55812 represent PCR primers used in a PCR technique

similar to 5' RACE (rapid amplification of cDNA ends) for extension and amplification of human genomic FGF-16 DNA sequences.

ACCESSION NUMBER: AAZ55811 DNA **DGENE**

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 US 5998170 33p PATENT INFO:

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]
DESCRIPTION: Human FGF-16 genomic PCR primer, SEQ ID NO:23.

ANSWER 15 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates TI

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55810 DNA **DGENE**

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55810-Z55812 represent PCR primers used in a PCR technique similar to 5' RACE (rapid amplification of cDNA ends) for extension and amplification of human genomic FGF-16 DNA sequences.

ACCESSION NUMBER: AAZ55810 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

2000-085497 [07] OTHER SOURCE:

Human FGF-16 partially random genomic PCR primer, SEQ ID DESCRIPTION:

NO:22.

ANSWER 16 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates ΤI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55809 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55809 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 33p US 5998170 PATENT INFO:

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: 2000-085497 [07]
DESCRIPTION: Human FGF-16 PCR primer, SEQ ID NO:21.

ANSWER 17 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates ΤI proliferation and growth of hepatocytes is useful for treating hepatic

AAZ55808 DNA DGENE AN

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

DGENE ACCESSION NUMBER: AAZ55808 DNA

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H **INVENTOR:**

(AMGE-N) AMGEN INC. PATENT ASSIGNEE:

A 19991207 33p US 5998170 PATENT INFO:

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

2000-085497 [07] OTHER SOURCE:

Human FGF-16 5' RACE PCR primer, SEQ ID NO:20. DESCRIPTION:

ANSWER 18 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates ΤI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

DGENE AAZ55807 DNA ΑN

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55807 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 5' RACE PCR primer, SEQ ID NO:19.

L16 ANSWER 19 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55806 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

amplification of cDNA ends) of human FGF-16 cDNA. ACCESSION NUMBER: AAZ55806 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (E).

L16 ANSWER 20 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55805 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55805 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

(AMGE-N)AMGEN INC. PATENT ASSIGNEE:

A 19991207 33p PATENT INFO: US 5998170

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: 2000-085497 [07] DESCRIPTION: Human FGF-16 par Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (D).

ANSWER 21 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates TI proliferation and growth of hepatocytes is useful for treating hepatic

AAZ55804 DNA DGENE AN

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55804 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 33p PATENT INFO: US 5998170

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

Human FGF-16 partially random 5' RACE PCR primer, SEQ ID DESCRIPTION:

NO:18 (C).

ANSWER 22 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates ΤI

amplification of cDNA ends) of human FGF-16 cDNA.

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AAZ55803 DNA DGENE AN

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid

ACCESSION NUMBER: AAZ55803 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 US 5998170 33p PATENT INFO:

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

2000-085497 [07] OTHER SOURCE:

Human FGF-16 partially random 5' RACE PCR primer, SEQ ID DESCRIPTION:

NO:18 (B).

ANSWER 23 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates TI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

DGENE ΑN AAZ55802 DNA

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55802 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H **INVENTOR:**

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 33p ' US 5998170 PATENT INFO:

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]
DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (A).

ANSWER 24 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates TI

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AAZ55801 DNA **DGENE** ΑN

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55801 DNA DGENE TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 5' RACE PCR primer, SEQ ID NO:16.

L16 ANSWER 25 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic

disorders -AN AAZ55800 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a PCR primer used with primer AAZ55799 in 3' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55800 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

disorders -

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 3' RACE PCR primer, SEQ ID NO:15.

L16 ANSWER 26 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic

AN AAZ55799 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a primer used to synthesise first strand cDNA from human heart polyA+ RNA, and also used as a PCR primer in 3' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55799 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Reverse transcription/human FGF-16 3' RACE PCR primer, SEQ ID

NO:14:

L16 ANSWER 27 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55798 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55798 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human fibroblast growth factor FGF-16 PCR primer, SEQ ID

NO:132.

L16 ANSWER 28 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT ON STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55797 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55797 DNA **DGENE**

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: A 19991207 33p US 5998170

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: 2000-085497 [07]
DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:12.

ANSWER 29 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates ТT proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AAZ55796 DNA DGENE AN

The invention relates to rat and human fibroblast growth factor-16 AB. (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55796 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

33p PATENT INFO: US 5998170 A 19991207

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

Human heart polyA+ RNA reverse transcription primer, SEQ ID DESCRIPTION:

NO:11.

ANSWER 30 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates TI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

DGENE AN AAZ55795 DNA

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triqlycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present

invention.

ACCESSION NUMBER: AAZ55795 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:10.

L16 ANSWER 31 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55794 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55794 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:9.

L16 ANSWER 32 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55793 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present

invention.

ACCESSION NUMBER: AAZ55793 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:8.

L16 ANSWER 33 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55792 CDNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a rat fibroblast growth factor-16 partial cDNA, used to design PCR primers to isolate CDNA encoding human FGF-16 in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55792 cDNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 partial cDNA.

L16 ANSWER 34 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55791 cDNA DGENE

This sequence represents cDNA encoding human fibroblast growth factor-16 (FGF-16). FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAZ55791 cDNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for

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treating hepatic disorders -
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INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07] CROSS REFERENCES: P-PSDB: AAY58429

DESCRIPTION: cDNA encoding human fibroblast growth factor FGF-16.

L16 ANSWER 35 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT ON STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic

disorders -

AN AAZ55790 cDNA DGENE

This sequence represents cDNA encoding rat fibroblast growth factor-16 (FGF-16). FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAZ55790 cDNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

LANGUAGE: 2000-085497 [07]
CROSS REFERENCES: P-PSDB: AAY58428

DESCRIPTION: cDNA encoding rat fibroblast growth factor FGF-16.

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(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

L1 13014 S RANTES L2 2849 S ALBUMII

2849 S ALBUMIN FUSION PROTEIN

L3 8 S L1 AND L2

L4 1364 S FGF-8

L5 509 S L4 AND ALBUMIN L6 491 S L5 AND FUSION

L7 207 S L6 AND L1

L8 0 S L7 AND STABILIZER

L9 - 6424 S FUSION PARTNER L10 2467 S L9 AND ALBUMIN

L10 2467 S L9 AND ALBU L11 176 S L9 AND BMP

L12 141 S L11 AND L10 L13 101 S L12 AND L1

L14 2849 S ALBUMIN () FUSION PROTEIN

L15 0 S ALBUMIN () BMP L16 35 S ALBUMIN () FGF

Hit List



Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 4563489 A

L2: Entry 1 of 1

File: USPT

Jan 7, 1986

US-PAT-NO: 4563489

DOCUMENT-IDENTIFIER: US 4563489 A

TITLE: Biodegradable organic polymer delivery system for bone morphogenetic protein

DATE-ISSUED: January 7, 1986

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Urist; Marshall R.

Pacific Palisades

CA

US-CL-CURRENT: 514/21; 424/426, 523/115, 524/17, 524/21, 604/891.1, 623/915

Full Title Citation Front Review	Classification Date	Reference Sequences	Altachmenic Clair	ns KWMC Draw	na De
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albumin adj2 BMP				1	

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6025194 A

L8: Entry 1 of 2

File: USPT

Feb 15, 2000

US-PAT-NO: 6025194

DOCUMENT-IDENTIFIER: US 6025194 A

TITLE: Nucleic acid sequence of senescence asssociated gene

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Funk; Walter

Hayward

CA

US-CL-CURRENT: 435/320.1; 435/325, 536/23.1, 536/23.5, 536/24.1

Full Title Citation Front Review Classification Date Reference Sequences Altschments Claims KMC Draw. Do

☐ 2. Document ID: US 5733541 A

L8: Entry 2 of 2

File: USPT

Mar 31, 1998

US-PAT-NO: 5733541

DOCUMENT-IDENTIFIER: US 5733541 A

** See image for Certificate of Correction **

TITLE: Hematopoietic cells: compositions and methods

DATE-ISSUED: March 31, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Taichman; Russell S.

Ann Arbor

MI

Emerson; Stephen G.

Wayne

PA

US-CL-CURRENT: 424/93.1; 424/93.7, 435/325, 435/347, 435/373, 435/375, 435/377

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KVMC Draw. De

h eb bgeeef e ef b

Clear	Generate Collection	Pflat	Fwd Refs	Bkwd Refs	Generate OACS	
	Terms		Docu	ments		
	BMP-2 and L7				2	

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Freeform Search

Database:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins	
Term:	albumin and fusion protein	
Display:	10 Documents in Display Format: CIT	Starting with Number 1
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Search History

DATE: Friday, January 16, 2004 Printable Copy Create Case

Set Name side by side	- •	Hit Count	Set Name result set
DB=U	SPT; PLUR=YES; OP=OR		
<u>L10</u>	19 adj BMP	980	<u>L10</u>
<u>L9</u>	albumin fusion protein	198014	<u>L9</u>
<u>L8</u>	BMP-2 and L7	2	<u>L8</u>
<u>L7</u>	L6 and IL-6	284	<u>L7</u>
<u>L6</u>	L5 and Rantes	838	<u>L6</u>
<u>L5</u>	human chemokine and albumin	314787	<u>L5</u>
<u>L4</u>	albumin adj2 CXC3	0	<u>L4</u>
<u>L3</u>	albumin fused to BMP	159316	<u>L3</u>
<u>L2</u>	albumin adj2 BMP	1	<u>L2</u>
L1	albumin and fusion protein	144237	L1

END OF SEARCH HISTORY

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FILE 'HOME' ENTERED AT 12:22:40 ON 16 JAN 2004

=> file medline, uspatful, biosis, fsta, wpids, japio, jicst, embase, dgene, biobusiness

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:23:20 ON 16 JAN 2004

FILE 'USPATFULL' ENTERED AT 12:23:20 ON 16 JAN 2004 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'FSTA' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 International Food Information Service

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FILE 'DGENE' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'BIOBUSINESS' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 Biological Abstracts, Inc. (BIOSIS)

=> s albumin fusion protein L1 2849 ALBUMIN FUSION PROTEIN

=> s BMP-1 and albumin
9 FILES SEARCHED...

L2 193 BMP-1 AND ALBUMIN

=> s 12 and 11

AΒ

L3 0 L2 AND L1

=> d 12 ti abs ibib 1-10

L2 ANSWER 1 OF 193 USPATFULL on STN

TI Novel proteins and nucleic acids encoding same

Disclosed herein are nucleic acid sequences that encode novel polypeptides. Also disclosed are polypeptides encoded by these nucleic acid sequences, and antibodies, which immunospecifically-bind to the polypeptide, as well as derivatives, variants, mutants, or fragments of the aforementioned polypeptide, polynucleotide, or antibody. The invention further discloses therapeutic, diagnostic and research methods for diagnosis, treatment, and prevention of disorders involving any one of these novel human nucleic acids and proteins.

2004:13595 USPATFULL

ACCESSION NUMBER: TITLE:

INVENTOR (S):

Novel proteins and nucleic acids encoding same Zerhusen, Bryan D., Branford, CT, UNITED STATES Padigaru, Muralidhara, Branford, CT, UNITED STATES Spytek, Kimberly, New Haven, CT, UNITED STATES Spaderna, Steven, Berlin, CT, UNITED STATES Gangolli, Esha A., Branford, CT, UNITED STATES Rastelli, Luca, Guilford, CT, UNITED STATES

Burgess, Catherine E., Wethersfield, CT, UNITED STATES Majumder, Kumud, Stamford, CT, UNITED STATES Shimkets, Richard, West Haven, CT, UNITED STATES Mishra, Vishnu, Branford, CT, UNITED STATES Vernet, Corine, North Branford, CT, UNITED STATES Szekeres, Edward S., Branford, CT, UNITED STATES Grosse, William M., Branford, CT, UNITED STATES Alsobrook, John P., II, Madison, CT, UNITED STATES Liu, Xiaohong, Branford, CT, UNITED STATES Gerlach, Valerie L., Branford, CT, UNITED STATES Ellerman, Karen, Branford, CT, UNITED STATES Smithson, Glennda, Branford, CT, UNITED STATES Peyman, John, New Haven, CT, UNITED STATES Stone, David, Guilford, CT, UNITED STATES MacDougall, John, Hamden, CT, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004010118	Δ1	20040115	
APPLICATION INFO.:				(9)
	NUMBER	DA'	TE	
PRIORITY INFORMATION:				
	US 2000-225693P			
	US 2000-225837P			
	US 2000-226236P			
	US 2000-226353P		0818 (60)	
•	US 2000-227085P	2000	0822 (60)	
	US 2000-227395P	2000	0823 (60)	
•	US 2000-227492P	2000	0824 (60)	
	US 2000-227600P	2000	0824 (60)	
	US 2001-275952P			
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	MINTZ, LEVIN, CO	HN, FER	RIS, GLOVS	KY, AND POPEO, P.C.,
	ONE FINANCIAL CE	•	•	
NUMBER OF CLAIMS:				-
EXEMPLARY CLAIM:				
LINE COUNT:	9358			
DINE COORT.	2330			
L2 ANSWER 2 OF 193	USPATFULL on STN			

ANSWER 2 OF 193 USPATFULL on STN

ΤI Methods of treatment of periodontal disease

AB Purified BMP-2 and BMP-4 proteins and processes for producing them are disclosed. The proteins may be used in the treatment of bone and cartilage defects and in wound healing and related tissue repair.

ACCESSION NUMBER: 2004:13394 USPATFULL TITLE: Methods of treatment of periodontal disease INVENTOR(S):

Wang, Elizabeth, Carlisle, MA, UNITED STATES Wozney, John M., Hudson, MA, UNITED STATES Rosen, Vicki A., Brookline, MA, UNITED STATES

DATE

KIND

PATENT INFORMATION:	US 2004009916 A1 20040115
APPLICATION INFO.:	US 2003-397214 A1 20030327 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-804625, filed on 9 Mar
	2001, PENDING Continuation of Ser. No. US 1997-925779,
	filed on 9 Sep 1997, GRANTED, Pat. No. US 6245889
	Continuation of Ser. No. US 1991-721847, filed on 14
	Jun 1991, GRANTED, Pat. No. US 6150328
	Continuation-in-part of Ser. No. US 1990-493272, filed
	on 14 Mar 1990, ABANDONED Continuation-in-part of Ser.

NUMBER

No. US 1989-406217, filed on 12 Sep 1989, ABANDONED Continuation-in-part of Ser. No. US 1989-378537, filed

on 11 Jul 1989, GRANTED, Pat. No. US 5166058

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow,, Garrett & Dunner,

L.L.P., 1300 I Street, N.W., Washington, DC, 20005-3315

NUMBER OF CLAIMS: 2 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 7 Drawing Page(s)

LINE COUNT: 1876

L2 ANSWER 3 OF 193 USPATFULL on STN

TI Chondrogenic and osteogenic inducing molecule

The present invention is directed to methods of using and compositions comprising amelogenin peptides capable of inducing chondrogenesis and osteogenesis when implanted in vivo, a chondrogenesis in cultures in vitro. Compositions and methods of enhancing bone and cartilage growth using these peptides are described.

ACCESSION NUMBER: 2004:9593 USPATFULL

TITLE: Chondrogenic and osteogenic inducing molecule

INVENTOR(S): Veis, Arthur, Skokie, IL, United States

Nebgen, Denise R., Houston, TX, United States

PATENT ASSIGNEE(S): Northwestern University, Evanston, IL, United States

(U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION: US	6677306	B1	20040113	
WO	2000006734		20000210	
APPLICATION INFO.: US	2001-744128		20010516	(9)
WO	1999-US17342		19990729	

NUMBER	DATE	
US 1998-94489P	19980729	(60)

PRIORITY INFORMATION: US 1998-94489
DOCUMENT TYPE: Utility

FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Mertz, Prema

LEGAL REPRESENTATIVE: Marshall, Gerstein & Borun LLP

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 16 Drawing Figure(s); 16 Drawing Page(s)

LINE COUNT: 1877

L2 ANSWER 4 OF 193 USPATFULL on STN

Treatment of inflammatory bowel disease using growth factors TI The present invention is based upon methods of treating inflammatory AB conditions in the intestinal tract of mammals using growth factor related polypeptides. The invention includes methods of reducing the mortality rate or delaying mortality in a subject suffering from an inflammatory pathology. Methods of using fibroblast growth factor-CX (FGF-CX) polynucleotides sequences and the FGF-CX polypeptides encoded by such nucleic acid sequence, or variants, fragments and homologs thereof, are claimed in the invention. Similarly, methods of using FCTRX polynucleotide sequences and the FCTRX polypeptides encoded by such nucleic acid sequences, or variants, fragments and homologs thereof, alone or in combination, are also claimed in the invention. FCTRX collectively refers to any of six variant FCTRX sequences, variously designated FCTR1, FCTR2, FCTR3, FCTR4, FCTR5 and FCTR6.

ACCESSION NUMBER: 2004:7775 USPATFULL

TITLE: Treatment of inflammatory bowel disease using growth

factors

INVENTOR (S):

Boldog, Ferenc L., North Haven, CT, UNITED STATES Burgess, Catherine E., Wethersfield, CT, UNITED STATES Fernandes, Elma R., Branford, CT, UNITED STATES Jeffers, Michael E., Branford, CT, UNITED STATES LaRochelle, William J., Madison, CT, UNITED STATES Lichenstein, Henri S., Guilford, CT, UNITED STATES Peterson, Jeffrey, Brookfield, CT, UNITED STATES Prayaga, Sudhirdas K., O'Fallon, MO, UNITED STATES Rittman, Beth, Colchester, CT, UNITED STATES Shimkets, Juliette B., Guilford, CT, UNITED STATES Shimkets, Richard A., Guilford, CT, UNITED STATES

Yang, Meijia, East Lyme, CT, UNITED STATES

NUMBER KIND DATE -----

PATENT INFORMATION: APPLICATION INFO.:

US 2004006015 A1 20040108 US 2002-321962 A1 20021216

20021216 (10)

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 2001-11364, filed

on 16 Nov 2001, PENDING

NUMBER DATE -----

PRIORITY INFORMATION:

US 2002-386545P 20020606 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

MINTZ, LEVIN, COHN, FERRIS, GLOVSKY, AND POPEO, P.C.,

ONE FINANCIAL CENTER, BOSTON, MA, 02111

NUMBER OF CLAIMS:

67

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

73 Drawing Page(s)

LINE COUNT:

L2 ANSWER 5 OF 193 USPATFULL on STN

ΤI Proteins and nucleic acids encoding same

AB Disclosed are polypeptides and nucleic acids encoding same. Also disclosed are vectors, host cells, antibodies and recombinant methods for producing the polypeptides and polynucleotides, as well as methods for using same.

ACCESSION NUMBER:

TITLE:

INVENTOR(S):

2004:7342 USPATFULL

Proteins and nucleic acids encoding same

Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES Li, Li, Branford, CT, UNITED STATES Patturajan, Meera, Branford, CT, UNITED STATES Shimkets, Richard A., Guilford, CT, UNITED STATES Casman, Stacie J., North Haven, CT, UNITED STATES Malyankar, Uriel M., Branford, CT, UNITED STATES Tchernev, Velizar T., Branford, CT, UNITED STATES Vernet, Corine A., North Branford, CT, UNITED STATES Spytek, Kimberly A., New Haven, CT, UNITED STATES Shenoy, Suresh G., Branford, CT, UNITED STATES Alsobrook, John P., II, Madison, CT, UNITED STATES Edinger, Schlomit, New Haven, CT, UNITED STATES Peyman, John A., New Haven, CT, UNITED STATES Stone, David J., Guilford, CT, UNITED STATES Ellerman, Karen, Branford, CT, UNITED STATES Gangolli, Esha A., Madison, CT, UNITED STATES Boldog, Ferenc L., North Haven, CT, UNITED STATES Colman, Steven D., Guilford, CT, UNITED STATES Eisen, Andrew, Rockville, MD, UNITED STATES Liu, Xiaohong, Lexington, MA, UNITED STATES Padigaru, Muralidhara, Branford, CT, UNITED STATES Spaderna, Steven K., Berlin, CT, UNITED STATES

Zerhusen, Bryan D., Branford, CT, UNITED STATES

	NUMBER KIND DATE
PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:	US 2004005576 A1 20040108 US 2002-231913 A1 20020830 (10) Continuation of Ser. No. US 2001-10680, filed on 6 Dec 2001, PENDING
	NUMBER DATE
PRIORITY INFORMATION:	US 2000-251660P 20001206 (60) US 2001-260326P 20010108 (60) US 2001-318712P 20010912 (60) US 2000-255029P 20001212 (60) US 2001-263800P 20010124 (60) US 2001-286183P 20010424 (60) US 2001-269942P 20010220 (60) US 2001-313627P 20010820 (60)
DOCUMENT TYPE: FILE SEGMENT: LEGAL REPRESENTATIVE:	· · · · · · · · · · · · · · · · · · ·
NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT:	ONE FINANCIAL CENTER, BOSTON, MA, 02111 41 1 17887
encoding them, a disclosed. The p least 70% identi 258-370 of SEQ I disclosed. The p can be used in t	
ACCESSION NUMBER: TITLE: INVENTOR(S):	2004:2119 USPATFULL Growth factor homolog ZVEGF4 Gilbert, Teresa, Seattle, WA, UNITED STATES Hart, Charles E., Woodinville, WA, UNITED STATES Sheppard, Paul O., Granite Falls, WA, UNITED STATES Gilbertson, Debra G., Seattle, WA, UNITED STATES NUMBER KIND DATE
APPLICATION INFO.:	US 2004002140 A1 20040101 US 2001-876813 A1 20010606 (9) Division of Ser. No. US 2000-564595, filed on 3 May 2000, GRANTED, Pat. No. US 6495668
	NUMBER DATE
PRIORITY INFORMATION:	US 1999-132250P 19990503 (60) US 1999-164463P 19991110 (60) US 2000-180169P 20000204 (60)
DOCUMENT TYPE: FILE SEGMENT: LEGAL REPRESENTATIVE:	Utility APPLICATION
NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS:	54 1 8 Drawing Page(s)

LINE COUNT: 5092

L2 ANSWER 7 OF 193 USPATFULL on STN

TI Bone morphogenic protein polynucleotides, polypeptides, and antibodies

The present invention relates to novel human BMP polypeptides and isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human BMP polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human BMP polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:318756 USPATFULL

TITLE: Bone morphogenic protein polynucleotides, polypeptides,

and antibodies

INVENTOR(S): Young, Paul E., Gaithersburg, MD, UNITED STATES

Ruben, Steven M., Brookeville, MD, UNITED STATES

KIND

PATENT INFORMATION: US 2003224501 A1 20031204
APPLICATION INFO.: US 2003-366345 A1 20030214 (10)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2003-345236, filed on 16 Jan 2003, PENDING Continuation-in-part of Ser.

No. US 2001-809269 filed on 16 Mar 2001 ABANDONED

NUMBER

on 16 Jan 2003, PENDING Continuation-in-part of Ser. No. US 2001-809269, filed on 16 Mar 2001, ABANDONED Continuation-in-part of Ser. No. WO 2001-US9229, filed

DATE

on 23 Mar 2001, PENDING

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 42 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 16963

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 8 OF 193 USPATFULL on STN

TI Sulfonamide compounds

AB This invention relates to certain sulfonamide derivatives that are inhibitors of procollagen C-proteinase, pharmaceutical compositions containing them, methods for their use and methods for preparing these compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:306969 USPATFULL TITLE: Sulfonamide compounds

INVENTOR(S): Billledeau, Roland Joseph, Santa Clara, CA, UNITED

STATES

Broka, Chris Allen, Foster City, CA, UNITED STATES Campbell, Jeffrey Allen, Middletown, CT, UNITED STATES Chen, Jian Jeffrey, Santa Clara, CA, UNITED STATES

Dankwardt, Sharon Marie, Foster City, CA, UNITED STATES

Delaet, Nancy, San Diego, CA, UNITED STATES

Robinson, Leslie Ann, San Diego, CA, UNITED STATES Walker, Keith Adrian Murray, Los Altos, CA, UNITED STATES

		NUMBER	KIND	DATE
				
PATENT INFORMATION:	US	2003216405	A1	20031120
APPLICATION INFO.:	US	2002-267727	A1	20021009

(10)Division of Ser. No. US 1999-469660, filed on 22 Dec RELATED APPLN. INFO.:

1999, GRANTED, Pat. No. US 6492394

NUMBER DATE _____ US 1998-113311P 19981222 (60) US 1999-147053P 19990803 (60) US 1999-164138P 19991108 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility Utility APPLICATION FILE SEGMENT:

DEPT., M/S A2-250, PALO ALTO, CA, 94304 LEGAL REPRESENTATIVE: ROCHE PALO ALTO LLC, 3431 HILLVIEW AVENUE, PATENT

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 3904

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 9 OF 193 USPATFULL on STN T.2

Composition and method for modulating vasculogenesis or angiogenesis ΤI A method for modulating vasculogenesis or angiogenesis using the core AB domain protein of PDGF-C, a new member of the PDGF/VEGF family of growth factors, or a homodimer or a heterodimer comprising the core domain. Also disclosed are pharmaceutical compositions comprising the core protein, nucleotide sequences encoding the protein, and uses thereof in medical and diagnostic applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:300768 USPATFULL

TITLE: Composition and method for modulating vasculogenesis or

angiogenesis

Li, Xuri, Stockholm, SWEDEN INVENTOR(S): Eriksson, Ulf, Stockholm, SWEDEN Carmeliet, Peter, Leuven, BELGIUM Collen, Desire, Leuven, BELGIUM

Ludwig Institute for Cancer Research (non-U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE _____ ____ PATENT INFORMATION: US 2003211994 A1 20031113 US 2002-303997 A1 20021126 APPLICATION INFO.: (10)

Continuation-in-part of Ser. No. US 1999-410349, filed RELATED APPLN. INFO.:

on 30 Sep 1999, PENDING

NUMBER DATE PRIORITY INFORMATION: US 1998-102461P 19980930 (60) US 1998-108109P 19981112 (60) US 1998-110749P 19981203 (60) US 1998-113002P 19981218 (60) US 1999-135426P 19990521 (60) US 1999-144022P 19990715 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

CROWELL & MORING LLP, INTELLECTUAL PROPERTY GROUP, P.O. LEGAL REPRESENTATIVE:

BOX 14300, WASHINGTON, DC, 20044-4300

NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 42 Drawing Page(s)

LINE COUNT: 2790

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 10 OF 193 USPATFULL on STN

TI OSTEOPROTEGERIN

The present invention discloses a novel secreted polypeptide, termed osteoprotegerin, which is a member of the tumor necrosis factor receptor superfamily and is involved in the regulation of bone metabolism. Also disclosed are nucleic acids encoding osteoprotegerin, polypeptides, recombinant vectors and host cells for expression, antibodies which bind OPG, and pharmaceutical compositions. The polypeptides are used to treat bone diseases characterized by increased resorption such as osteoporosis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:29

2003:294810 USPATFULL

TITLE:

OSTEOPROTEGERIN

INVENTOR(S):

BOYLE, WILLIAM J., MOORPARK, CA, UNITED STATES LACEY, DAVID L., THOUSAND OAKS, CA, UNITED STATES

CALZONE, FRANK J., WEST LAKE VILLAGE, CA, UNITED STATES

CHANG, MING-SHI, NEWBURY PARK, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION:

US 2003207827 A1 20031106 US 1999-405032 A1 19990924 (9)

APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. US 1998-132985, filed on 12

Aug 1998, PENDING Continuation of Ser. No. US 1996-771777, filed on 20 Dec 1996, ABANDONED

Continuation-in-part of Ser. No. US 1996-706945, filed

on 3 Sep 1996, GRANTED, Pat. No. US 6369027

Continuation-in-part of Ser. No. US 1995-577788, filed

on 22 Dec 1995, PENDING

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE:

AMGEN INCORPORATED, MAIL STOP 27-4-A, ONE AMGEN CENTER

DRIVE, THOUSAND OAKS, CA, 91320-1799

NUMBER OF CLAIMS:

60

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

46 Drawing Page(s)

LINE COUNT:

5457

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

1.1

(FILE 'HOME' ENTERED AT 12:22:40 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, BIOSIS, FSTA, WPIDS, JAPIO, JICST-EPLUS, EMBASE, DGENE, BIOBUSINESS' ENTERED AT 12:23:20 ON 16 JAN 2004

2849 S ALBUMIN FUSION PROTEIN

L2 193 S BMP-1 AND ALBUMIN

L3 0 S L2 AND L1

=> s l1 and FGF-16

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FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004

=> file medline, uspatful, dgene, embase, wpids, fsta, jicst, biosis COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:39:04 ON 16 JAN 2004

FILE 'USPATFULL' ENTERED AT 12:39:04 ON 16 JAN 2004
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FILE 'BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004 COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

=> s Rantes

L1 13014 RANTES

=> s albumin fusion protein

L2 2849 ALBUMIN FUSION PROTEIN

=> s 11 and 12

L3 8 L1 AND L2

=> d 13 ti abs ibib tot

L3 ANSWER 1 OF 8 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

ACCESSION NUMBER:

2004:13611 USPATFULL Albumin fusion proteins

INVENTOR(S):

TITLE:

Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004010134	A1	20040115	
APPLICATION INFO.:	US 2001-833245	A1	20010412	(9)

NUMBER DATE

PRIORITY INFORMATION: US 2000-256931P 20001221 (60)

US 2000-199384P 20000425 (60)

US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 18 Drawing Page(s)
25066

L3 ANSWER 2 OF 8 USPATFULL on STN

ΤI Albumin fusion proteins

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:312278 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

NUMBER KIND DATE _____ PATENT INFORMATION: US 2003219875 A1 20031127 US 2001-833118 A1 20010412 (9) APPLICATION INFO.:

NUMBER DATE ______ US 2000-256931P 20001221 (60) US 2000-199384P 20000425 (60) US 2000-229358P 20000412 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 18 Drawing Page(s)
15415

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 3 OF 8 USPATFULL on STN L3

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid AB molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. ACCESSION NUMBER: 2003:282700 USPATFULL TITLE:

Albumin fusion proteins

INVENTOR(S):

Ballance, David J., Berwyn, PA, UNITED STATES Sleep, Darrell, West Bridgford, UNITED KINGDOM Prior, Christopher P., Rosemont, PA, UNITED STATES Sadeghi, Homayoun, Doylestown, PA, UNITED STATES Turner, Andrew J., Eagleville, PA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003199043	A1	20031023	
APPLICATION INFO.:	US 2001-832501	A1	20010412	(9)

NUMBER DATE ______ US 2000-256931P 20001221 (60) US 2000-199384P 20000425 (60) US 2000-229358P 20000412 (60) PRIORITY INFORMATION:

Utility DOCUMENT TYPE: APPLICATION FILE SEGMENT:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 60 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 14339

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 8 USPATFULL on STN 1.3

Neutrokine-alpha and neutrokine-alpha splice variant ΤI

AB . The present invention relates to nucleic acid molecules encoding Neutrokine-alpha and/or Neutrokine-alphaSV polypeptides, including soluble forms of the extracellular domain. Neutrokine-alpha and/or Neutrokine-alphaSV polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to antibodies or portions thereof that specifically bind Neutrokine-alpha and/or Neutrokine-alphaSV and diagnostic and therapeutic methods using these antibodies. Also provided are diagnostic methods for detecting immune system-related disorders and therapeutic methods for treating immune system-related disorders using the compositions of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:250423 USPATFULL ACCESSION NUMBER:

Neutrokine-alpha and neutrokine-alpha splice variant TITLE:

Yu, Guo-Liang, Berkeley, CA, UNITED STATES INVENTOR(S):

Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

Ni, Jian, Germantown, MD, UNITED STATES

Rosen, Craig A., Laytonsville, MD, UNITED STATES Ullrich, Stephen, Rockville, MD, UNITED STATES Laird, Michael, Germantown, MD, UNITED STATES

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003175208	A1	20030918	
APPLICATION INFO.:	US 2002-270487	A1	20021016	(10)
RELATED APPLN. INFO.:	Continuation-in-	part of	Ser. No.	US 20

001-929493, filed on 15 Aug 2001, PENDING Continuation-in-part of Ser. No. US 2000-588947, filed on 8 Jun 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-589285, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No.

US 2000-589286, filed on 8 Jun 2000, PENDING

Continuation-in-part of Ser. No. US 2000-589287, filed

on 8 Jun 2000, GRANTED, Pat. No. US 6403770 Continuation-in-part of Ser. No. US 2000-589288, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-507968, filed on 22 Feb 2000, PENDING Continuation-in-part of Ser. No. US 1999-255794, filed on 23 Feb 1999, PENDING Continuation-in-part of Ser. No. US 2000-588947, filed on 8 Jun 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-589285, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-589286, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-589288, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-507968, filed on 22 Feb 2000, PENDING Continuation-in-part of Ser. No. US 1999-255794, filed on 23 Feb 1999, PENDING Continuation-in-part of Ser. No. US 1998-5874, filed on 12 Jan 1998, PENDING Continuation-in-part of Ser. No. WO 1996-US17957, filed on 25 Oct 1996, PENDING Continuation-in-part of Ser. No. US 1999-255794, filed on 23 Feb 1999, PENDING Continuation-in-part of Ser. No. US 1998-5874, filed on 12 Jan 1998, PENDING

DATE

PRIORITY INFORMATION:

_____ US 2001-329508P 20011017 (60) 20011018 (60) US 2001-329747P US 2001-330835P 20011031 (60) US 2001-331478P 20011116 (60) 20011207 (60) US 2001-336726P 20020401 (60) US 2002-368548P 20000815 (60) US 2000-225628P 20000823 (60) US 2000-227008P 20000922 (60) US 2000-234338P 20001017 (60) US 2000-240806P US 2000-250020P 20001130 (60) 20010316 (60) US 2001-276248P 20010525 (60) US 2001-293499P 20010607 (60) US 2001-296122P US 2001-304809P 20010713 (60) 19990302 (60) US 1999-122388P US 1999-124097P 19990312 (60) 19990326 (60) US 1999-126599P 19990402 (60) US 1999-127598P 19990416 (60) US 1999-130412P 19990423 (60) US 1999-130696P US 1999-131278P 19990427 (60) 19990429 (60) US 1999-131673P 19990528 (60) US 1999-136784P 19990706 (60) US 1999-142659P US 1999-145824P 19990727 (60) US 1999-167239P 19991124 (60) US 1999-168624P 19991203 (60) 19991216 (60) US 1999-171108P 19991223 (60) US 1999-171626P 20000114 (60) US 2000-176015P 19990302 (60) US 1999-122388P US 1999-124097P 19990312 (60) US 1999-126599P 19990326 (60) US 1999-127598P 19990402 (60) US 1999-130412P 19990416 (60) US 1999-130696P 19990423 (60) US 1999-131278P 19990427 (60) US 1999-131673P 19990429 (60) US 1999-136784P 19990528 (60)

NUMBER

US 1999-142659P 19990706 (60)
US 1999-145824P 19990727 (60)
US 1999-167239P 19991124 (60)
US 1999-171108P 19991216 (60)
US 1999-171626P 19991223 (60)
US 2000-176015P 20000114 (60)
US 1997-36100P 19970114 (60)

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 44

NUMBER OF DRAWINGS:

27 Drawing Page(s)

LINE COUNT:

18884

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 8 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:244853 USPATFULL Albumin fusion proteins

TITLE: INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES Sadeghi, Homayoun, Doylestown, PA, UNITED STATES Prior, Christopher P., Rosemont, PA, UNITED STATES Turner, Andrew J., Eagleville, PA, UNITED STATES

	NUMBER	KIND	DATE	
•				
PATENT INFORMATION:	US 2003171267	A1	20030911	
APPLICATION INFO.:	US 2001-833117	A1	20010412	(9)

NUMBER DATE

PRIORITY INFORMATION:

US 2000-256931P 20001221 (60) US 2000-199384P 20000425 (60) US 2000-229358P 20000412 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 59 1

NUMBER OF DRAWINGS:

20 Drawing Page(s)

LINE COUNT:

13208

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 8 USPATFULL on STN

TI Chemokine beta-1 fusion proteins

AB The present invention relates to novel chemokine polypeptides and encoding nucleic acids. More specifically, therapeutic compositions and methods are provided using isolated nucleic acid molecules encoding a

human chemokine beta-1 (Ck.beta.-1 or Ckb1) polypeptide (previously termed monocyte-colony inhibitory factor (M-CIF), MIP1-.gamma., and Hemofiltrate CC chemokine-1 (HCC-1)), and Ckb1 polypeptides themselves, as are vectors, host cells and recombinant methods for producing the same. Also provided are methods of treating, preventing, ameliorating diseases using such compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:206834 USPATFULL

TITLE:

Chemokine beta-1 fusion proteins

INVENTOR(S):

Bell, Adam, Germantown, MD, UNITED STATES Ruben, Steven M., Olney, MD, UNITED STATES

KIND DATE NUMBER

PATENT INFORMATION: US 2003143191 A1 20030731 APPLICATION INFO.: US 2002-153604 A1 20020524 (10)

NUMBER DATE ______

PRIORITY INFORMATION: US 2001-293212P 20010525 (60)

DOCUMENT TYPE: Utility
APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 17 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

21 Drawing Page(s)

LINE COUNT: 15446

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 7 OF 8 USPATFULL on STN L3

Albumin fusion proteins ΤI

The present invention encompasses albumin fusion proteins. Nucleic acid ΔR molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

TITLE:

ACCESSION NUMBER: 2003:181414 USPATFULL Albumin fusion proteins

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003125247	A1	20030703	
APPLICATION INFO.:	US 2001-833041	A1	20010412	(9)

US 2000-256931P 20001221 (60) PRIORITY INFORMATION:

US 2000-199384P 20000425 (60) US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM:

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 20 Drawing Page(s)

15235 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 8 USPATFULL on STN 1.3

Binding polypeptides and methods based thereon TI

Binding polypeptides that specifically bind BLyS protein or BLyS-like polypeptides can be used in methods of the invention for detecting, AB diagnosing, or prognosing a disease or disorder associated with aberrant BLyS or BLyS receptor expression or inappropriate function of BLyS or BLyS receptor, comprising BLyS binding polypeptides or fragments or variants thereof, that specifically bind to BLyS. The present invention further relates to methods and compositions for preventing, treating or ameliorating a disease or disorder associated with aberrant BLyS or BLyS receptor expression or inappropriate BLyS function or BLyS receptor function, comprising administering to an animal, preferably a human, an effective amount of one or more BLyS binding polypeptides or fragments or variants thereof, that specifically bind to BDyS.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:133480 USPATFULL ACCESSION NUMBER:

Binding polypeptides and methods based thereon TITLE: Beltzer, James P., Carlisle, MA, UNITED STATES INVENTOR(S):

Potter, M. Daniel, UNITED STATES

Potter, Marilou, Acton, MA, UNITED STATES LR Fleming, Tony J., Waltham, MA, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER KIND DATE ______ US 2003091565 A1 20030515 US 2001-932613 A1 20010817 (9)

NUMBER DATE _____

US 2000-226700P 20000818 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: Leon R. Yankwich, Esq., Yankwich & Associates, 130

Bishop Allen Drive, Cambridge, MA, 02139

NUMBER OF CLAIMS: 71 EXEMPLARY CLAIM: LINE COUNT: 11834

PATENT INFORMATION: APPLICATION INFO .:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

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8 S L1 AND L2 L3

=> s FGF-8

1364 FGF-8 L4

=> s l4 and albumin

509 L4 AND ALBUMIN

=> s 15 and fusion

L6 491 L5 AND FUSION

=> d 16 and 11

L1 IS NOT VALID HERE

For an explanation, enter "HELP DISPLAY".

=> s 16 and 11

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L7 207 L6 AND L1

=> s 17 and stabilizer

L8 0 L7 AND STABILIZER

=> d 17 ti abs ibib 1-10

L7 ANSWER 1 OF 207 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

ACCESSION NUMBER: 2004:13611 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Haseltine, William A., Washington, DC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004010134	A1	20040115	
APPLICATION INFO.:	US 2001-833245	A1	20010412	(9)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 25066

L7 ANSWER 2 OF 207 USPATFULL on STN

TI 53 human secreted proteins

The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

ACCESSION NUMBER: 2004:13609 USPATFULL

53 human secreted proteins TITLE:

Rosen, Craig A., Laytonsville, MD, UNITED STATES INVENTOR (S): Brewer, Laurie A., St. Paul, MN, UNITED STATES

Duan, Roxanne D., Bethesda, MD, UNITED STATES Ruben, Steven M., Olney, MD, UNITED STATES

Florence, Kimberly A., Rockville, MD, UNITED STATES Greene, John M., Gaithersburg, MD, UNITED STATES Young, Paul E., Gaithersburg, MD, UNITED STATES Ferrie, Ann M., Painted Post, NY, UNITED STATES

Yu, Guo-Liang, Berkeley, CA, UNITED STATES Florence, Charles, Rockville, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Olsen, Henrik, Gaithersburg, MD, UNITED STATES

NUMBER KIND DATE ______

US 2004010132 A1 20040115 US 2001-984429 A1 20011030 (9) PATENT INFORMATION: APPLICATION INFO.:

Continuation-in-part of Ser. No. US 1999-288143, filed RELATED APPLN. INFO.:

on 8 Apr 1999, GRANTED, Pat. No. US 6433139

Continuation-in-part of Ser. No. WO 1998-US21142, filed

on 8 Oct 1998, PENDING

NUMBER DATE _____

US 2000-244591P 20001101 (60) PRIORITY INFORMATION:

US 1997-61463P 19971009 (60)
US 1997-61529P 19971009 (60)
US 1997-61527P 19971009 (60)
US 1997-61536P 19971009 (60)
US 1997-61532P 19971009 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

AB

4 Drawing Page(s) NUMBER OF DRAWINGS:

27480 LINE COUNT:

L7 ANSWER 3 OF 207 USPATFULL on STN

7 Human ovarian and ovarian cancer associated proteins TI

This invention relates to newly identified ovarian or ovarian cancer related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "ovarian cancer antigens", and the use of such ovarian antigens for detecting disorders of the reproductive system, particularly the presence of ovarian cancer and ovarian cancer metastases. This invention relates to ovarian cancer antigens as well as vectors, host cells, antibodies directed to ovarian cancer antigens and the recombinant methods and synthetic methods for producing the same. Also provided are diagnostic methods for detecting, treating, preventing and/or prognosing disorders related to the ovary, including ovarian cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of ovarian cancer antigens of the invention. The present invention further relates to inhibiting the production and function of the polypeptides of the present invention.

2004:13598 USPATFULL ACCESSION NUMBER:

7 Human ovarian and ovarian cancer associated proteins TITLE: Birse, Charles E., North Potomac, MD, UNITED STATES INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

KIND DATE NUMBER ______

US 2004010121 A1 20040115 US 2003-333900 A1 20030124 (10) WO 2001-US8585 20010316 PATENT INFORMATION: APPLICATION INFO.:

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: LINE COUNT: 16023

AB

L7

ANSWER 4 OF 207 USPATFULL on STN Nucleic acids, proteins, and antibodies TТ

The present invention relates to novel polynucleotides associated with the plasma membrane, the polypeptides encoded by these polynucleotides herein collectively referred to as "plasma membrane associated antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such plasma membrane associated polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders related to these novel polypeptides. More specifically, isolated nucleic acid molecules are provided encoding novel plasma membrane associated polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing these plasma membrane associated polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the novel polypeptides of the invention. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

ACCESSION NUMBER: 2004:12971 USPATFULL

Nucleic acids, proteins, and antibodies TITLE:

Birse, Charles E., North Potomac, MD, UNITED STATES INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER KIND DATE _____

PATENT INFORMATION: US 2004009491 A1 20040115 US 2002-264237 A1 20021004 (10) APPLICATION INFO.:

Continuation-in-part of Ser. No. WO 2001-US16450, filed RELATED APPLN. INFO.:

on 18 May 2001, PENDING

NUMBER DATE ______

US 2000-205515P 20000519 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24 EXEMPLARY CLAIM: 18144 LINE COUNT:

ANSWER 5 OF 207 USPATFULL on STN **L**7

Nucleic acids, proteins, and antibodies TI

The present invention relates to novel musculoskeletal system related AB polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "musculoskeletal system antigens," and the use of such musculoskeletal system antigens for detecting disorders of the musculoskeletal system, particularly the presence of cancer and cancer metastases. More specifically, isolated musculoskeletal system associated nucleic acid molecules are provided encoding novel musculoskeletal system associated polypeptides. Novel musculoskeletal system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human musculoskeletal system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the musculoskeletal system, including cancer of musculoskeletal tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

2004:12968 USPATFULL

Nucleic acids, proteins, and antibodies

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.:

US 2004009488 A1 20040115 US 2002-242515 A1 20020913 (10)

Continuation of Ser. No. US 2001-764877, filed on 17

Jan 2001, PENDING

NUMBER DATE _____

PRIORITY INFORMATION:

US	2000-179065P	20000131	(60)
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 Utility
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DOCUMENT TYPE:

FILE SEGMENT:

ΤI

APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

Apoptosis inducing molecule II and methods of use

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

24 1

LINE COUNT: 32038

ANSWER 6 OF 207 USPATFULL on STN L7

The present invention relates to a novel member of the TNF-Ligand AΒ superfamily. More specifically, isolated nucleic acid molecules are provided encoding a human Apoptosis Inducing Molecule II (AIM II). AIM II polypeptides are also provided, as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of AIM II activity. Also provided are therapeutic methods for treating lymphadenopathy, aberrant bone development, autoimmune and other immune

system diseases, graft versus host disease, rheumatoid arthritis,

osteoarthritis and to inhibit neoplasia, such as tumor cell growth.

ACCESSION NUMBER:

2004:12629 USPATFULL

TITLE:

INVENTOR (S):

Apoptosis inducing molecule II and methods of use Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

Yu, Guo-Liang, Berkeley, CA, UNITED STATES

Ruben, Steven M., Brookeville, MD, UNITED STATES

Zhai, Yifan, Rockville, MD, UNITED STATES

Ullrich, Stephen, Rockville, MD, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc. (U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION:

APPLICATION INFO.:

US 2004009147 A1 20040115 US 2003-375680 A1 20030228 (10)

Continuation-in-part of Ser. No. US 2000-523323, filed RELATED APPLN. INFO.:

on 10 Mar 2000, GRANTED, Pat. No. US 6635743

Continuation-in-part of Ser. No. US 1999-252656, filed

on 19 Feb 1999, GRANTED, Pat. No. US 6495520

Continuation-in-part of Ser. No. US 1998-27287, filed

on 20 Feb 1998, GRANTED, Pat. No. US 6479254 Continuation-in-part of Ser. No. US 1998-3886, filed on

7 Jan 1998, ABANDONED Continuation-in-part of Ser. No. US 1997-822953, filed on 21 Mar 1997, ABANDONED

> NUMBER DATE

PRIORITY INFORMATION:

US 2002-360234P 20020301 (60) US 1999-168380P 19991202 (60) US 1999-148326P 19990811 (60) US 1999-142657P 19990706 (60) US 1999-137457P 19990604 (60) US 1999-124041P 19990311 (60) US 1998-75409P 19980220 (60) US 1996-13923P 19960322 (60) US 1996-30157P 19961031 (60)

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE:

STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK

AVENUE, N.W., WASHINGTON, DC, 20005

NUMBER OF CLAIMS:

45

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

48 Drawing Page(s)

LINE COUNT:

13322

ANSWER 7 OF 207 USPATFULL on STN 1.7

Nucleic acids, proteins, and antibodies TΙ

The present invention relates to novel ovarian related polynucleotides, AB the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating,

preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic

methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of

polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

ACCESSION NUMBER:

2004:7345 USPATFULL

TTTLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Birse, Charles E., North Potomac, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER	KIND	DATE

PATENT INFORMATION: US 2004005579 A1 20040108
APPLICATION INFO.: US 2002-264049 A1 20021004 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US18569, filed

on 7 Jun 2001, PENDING

NUMBER DATE _____

PRIORITY INFORMATION: US 2000-209467P 20000607 (60)

DOCUMENT TYPE:

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

LINE COUNT:

18130

ANSWER 8 OF 207 USPATFULL on STN L7

Nucleic acids, proteins, and antibodies TI

The present invention relates to novel proteins. More specifically, AB isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:7343 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION:

PATENT ASSIGNEE(S):

APPLICATION INFO.:

US 2004005577 A1 20040108 US 2002-242747 A1 20020913 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-764881, filed on 17

Jan 2001, PENDING

	NUMBER	DATE
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US 2000-190076P 20000317 (60) US 2000-209467P 20000607 (60) US 2000-205515P 20000519 (60) US 2001-259678P 20010105 (60)

DOCUMENT TYPE: FILE SEGMENT:

AΒ

Utility APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 27694

L7 ANSWER 9 OF 207 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

The present invention relates to novel cardiovascular system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "cardiovascular system antigens," and the use of such cardiovascular system antigens for detecting disorders of the cardiovascular system, particularly the presence of cancer of cardiovascular system tissues and cancer metastases. More specifically, isolated cardiovascular system associated nucleic acid molecules are provided encoding novel cardiovascular system associated polypeptides. Novel cardiovascular system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human cardiovascular system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the cardiovascular system, including cancer of cardiovascular system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:7341 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

NUMBER KIND DATE
US 2004005575 A1 20040108
US 2002-227577 A1 20020826

PATENT INFORMATION:
APPLICATION INFO.:
RELATED APPLN. INFO.:

US 2002-227577 A1 20020826 (10) Continuation of Ser. No. US 2002-91504, filed on 7 Mar

2002, PENDING Continuation of Ser. No. US 2001-764869,

filed on 17 Jan 2001, ABANDONED

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US	2000-209467P	20000607	(60)
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Ut:	ility		
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DOCUMENT TYPE: FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

24 NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 28742

ANSWER 10 OF 207 USPATFULL on STN L7

50 human secreted proteins ΤI

The present invention relates to novel human secreted proteins and AB isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. 2004:2568 USPATFULL ACCESSION NUMBER:

TITLE:

INVENTOR (S):

50 human secreted proteins Moore, Paul A., Germantown, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Olsen, Henrik S., Gaithersburg, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Brewer, Laurie A., St. Paul, MN, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., Rockville, MD (U.S.

corporation)

NUMBER KIND DATE ______ US 2004002591 A1 20040101 US 2002-47021 A1 20020117 (10)

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 2000-722329, filed on 28 Nov 2000, PENDING Continuation of Ser. No. US

1999-262109, filed on 4 Mar 1999, ABANDONED

Continuation-in-part of Ser. No. WO 1998-US18360, filed

on 3 Sep 1998, PENDING

NUMBER DATE -----US 2001-262066P 20010118 (60) PRIORITY INFORMATION: US 2001-262066P 20010118 (60)
US 1997-57626P 19970905 (60)
US 1997-57663P 19970905 (60)
US 1997-58666P 19970912 (60)
US 1997-58667P 19970912 (60)
US 1997-58973P 19970912 (60)
US 1997-58974P 19970912 (60)
US 1998-90112P 19980622 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM:

2 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: .33379

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

L1 13014 S RANTES

L2 2849 S ALBUMIN FUSION PROTEIN

L3 8 S L1 AND L2

L4 1364 S FGF-8

L5 509 S L4 AND ALBUMIN L6 491 S L5 AND FUSION

L7 207 S L6 AND L1

L8 0 S L7 AND STABILIZER

=> s fusion partner

L9 6424 FUSION PARTNER

=> s 19 and albumin

L10 2467 L9 AND ALBUMIN

=> s 19 and BMP

L11 176 L9 AND BMP

=> s l11 and l10

L12 141 L11 AND L10

=> s l12 and l1

L13 101 L12 AND L1

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L13 ANSWER 1 OF 101 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins.

Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

ACCESSION NUMBER: 2004:13611 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

Haseltine, William A., Washington, DC, UNITED STATES

<i>•</i>	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004010134		20040115	
APPLICATION INFO.:	US 2001-833245	A1	20010412	(9)

			NUMBER	DATE	
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PRIORITY	INFORMATION:	US	2000-256931P	20001221	(60)
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		US	2000-229358P	20000412	(60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 25066

AΒ

L13 ANSWER 2 OF 101 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

The present invention relates to novel polynucleotides associated with the plasma membrane, the polypeptides encoded by these polynucleotides herein collectively referred to as "plasma membrane associated antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such plasma membrane associated polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders related to these novel polypeptides. More specifically, isolated nucleic acid molecules are provided encoding novel plasma membrane associated polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing these plasma membrane associated polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the novel polypeptides of the invention. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

ACCESSION NUMBER: 2004:12971 USPATFULL

TITLE: Nucleic acids, proteins, and antibodies

INVENTOR(S): Birse, Charles E., North Potomac, MD, UNITED STATES

Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2004009491 A1 20040115
APPLICATION INFO.: US 2002-264237 A1 20021004 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US16450, filed

on 18 May 2001, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2000-205515P 20000519 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 18144

L13 ANSWER 3 OF 101 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

The present invention relates to novel musculoskeletal system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "musculoskeletal system antigens," and the use of such musculoskeletal system antigens for detecting disorders of the musculoskeletal system, particularly the presence of cancer and cancer metastases. More specifically, isolated musculoskeletal system associated nucleic acid molecules are provided encoding novel musculoskeletal system associated polypeptides. Novel musculoskeletal system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human musculoskeletal system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating,

preventing and/or prognosing disorders related to the musculoskeletal system, including cancer of musculoskeletal tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:12968 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

PATENT ASSIGNEE(S):

NUMBER KIND 20040115

PATENT INFORMATION: APPLICATION INFO.:

US 2004009488 A1 US 2002-242515 A1 US 2002-242515 A1 20020913 (10)

Continuation of Ser. No. US 2001-764877, filed on 17

RELATED APPLN. INFO.: Jan 2001, PENDING NUMBER DATE PRIORITY INFORMATION: US 2000-179065P 20000131 (60) 20000204 (60) US 2000-180628P US 2000-214886P 20000628 (60) US 2000-21748/F
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US 2000-205515P
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US 2001-259678P
Utility
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DOCUMENT TYPE:

FILE SEGMENT:

AB

LEGAL REPRESENTATIVE:

APPLICATION HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

32038 LINE COUNT:

L13 ANSWER 4 OF 101 USPATFULL on STN

Nucleic acids, proteins, and antibodies ΤI

The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the

production and/or function of the polypeptides of the invention.

ACCESSION NUMBER:

2004:7345 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Birse, Charles E., North Potomac, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER	KIND	DATE		

PATENT INFORMATION:

US 2004005579 A1 20040108 US 2002-264049 A1 20021004

APPLICATION INFO.:

(10)

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. WO 2001-US18569, filed

on 7 Jun 2001, PENDING

NUMBER DATE _____

PRIORITY INFORMATION:

US 2000-209467P 20000607 (60)

DOCUMENT TYPE: FILE SEGMENT:

Utility

APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS:

1

EXEMPLARY CLAIM: LINE COUNT: 18130

L13 ANSWER 5 OF 101 USPATFULL on STN

Nucleic acids, proteins, and antibodies ΤI

The present invention relates to novel proteins. More specifically, AB isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:7343 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES Barash, Steven C., Rockville, MD, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD, UNITED PATENT ASSIGNEE(S):

STATES (U.S. corporation)

NUMBER	KIND	DATE
IIS 2004005577	Δ1	20040108

PATENT INFORMATION: APPLICATION INFO.:

US 2002-242747 A1 20020913 (10)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 2001-764881, filed on 17

Jan 2001, PENDING

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PRIORITY	INFORMATION:	US	2000-179065P	20000131	(60)
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US 2000-205515P 20000519 (60) US 2001-259678P 20010105 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 27694

AB

L13 ANSWER 6 OF 101 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

The present invention relates to novel cardiovascular system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "cardiovascular system antigens," and the use of such cardiovascular system antigens for detecting disorders of the cardiovascular system, particularly the presence of cancer of cardiovascular system tissues and cancer metastases. More specifically, isolated cardiovascular system associated nucleic acid molecules are provided encoding novel cardiovascular system associated polypeptides. Novel cardiovascular system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human cardiovascular system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the cardiovascular system, including cancer of cardiovascular system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER: 2004:7341 USPATFULL

PATENT ASSIGNEE(S):

PATENT INFORMATION:

TITLE: Nucleic acids, proteins, and antibodies

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

NUMBER KIND DATE
-----US 2004005575 A1 20040108
US 2002-227577 A1 20020826 (10)

APPLICATION INFO.: US 2002-227577 A1 20020826 (10)
RELATED APPLN. INFO.: Continuation of Ser. No. US 2002-91504, filed on 7 Mar 2002, PENDING Continuation of Ser. No. US 2001-764869,

filed on 17 Jan 2001, ABANDONED

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PRIORITY	INFORMATION:	US	2000-179065P	20000131	(60)
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Utility
APPLICATION
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DOCUMENT TYPE: FILE SEGMENT: LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24 EXEMPLARY CLAIM: 28742 LINE COUNT:

L13 ANSWER 7 OF 101 USPATFULL on STN

TI 50 human secreted proteins

The present invention relates to novel human secreted proteins and AB isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2004:2568 USPATFULL

TITLE:

50 human secreted proteins

INVENTOR(S):

Moore, Paul A., Germantown, MD, UNITED STATES Ruben, Steven M., Olney, MD, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Olsen, Henrik S., Gaithersburg, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Brewer, Laurie A., St. Paul, MN, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., Rockville, MD (U.S.

corporation)

NUMBER KIND DATE ° -----US 2004002591 A1 20040101 US 2002-47021 A1 20020117

PATENT INFORMATION:

APPLICATION INFO .:

(10)

Continuation-in-part of Ser. No. US 2000-722329, filed RELATED APPLN. INFO.: on 28 Nov 2000, PENDING Continuation of Ser. No. US

1999-262109, filed on 4 Mar 1999, ABANDONED

Continuation-in-part of Ser. No. WO 1998-US18360, filed

on 3 Sep 1998, PENDING

DATE NUMBER US 2001-262066P 20010118 (60) PRIORITY INFORMATION:

US 1997-57663P US 1997-57669P US 1997-58666P US 1997-58667P US 1997-5867P 19970905 (60) US 1997-57626P 19970905 (60) 19970905 (60) 19970912 (60) 19970912 (60) US 1997-58973P 19970912 (60) US 1997-58974P 19970912 (60) US 1998-90112P 19980622 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

2 Drawing Page(s)

LINE COUNT:

33379

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 8 OF 101 USPATFULL on STN

ΤI Nucleic acids, proteins, and antibodies

The present invention relates to novel excretory system related AB polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "excretory system antigens," and the use of

such excretory system antigens for detecting disorders of the excretory system, particularly the presence of cancer of excretory system tissues and cancer metastases. More specifically, isolated excretory system associated nucleic acid molecules are provided encoding novel excretory system associated polypeptides. Novel excretory system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human excretory system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the excretory system, including cancer of excretory system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:334955 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., Rockville, MD, 20850 (U.S.

corporation)

NUMBER	KIND	DATE	
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PATENT INFORMATION: APPLICATION INFO.:

US 2003235831 A1 20031225 US 2002-242355 A1 20020913

RELATED APPLN. INFO.:

Continuation of Ser. No. US 2001-764897, filed on 17

(10)

Jan 2001, PENDING

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Utility
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DOCUMENT TYPE:

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

24 1

LINE COUNT:

22457

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 9 OF 101 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for

identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:334953 USPATFULL

TITLE:

INVENTOR(S):

Nucleic acids, proteins, and antibodies Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Birse, Charles E., North Potomac, MD, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

PATENT INFORMATION: APPLICATION INFO.:

US 2003235829 A1 20031225 US 2002-227646 A1 20020826 (10)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 2001-860670, filed on 21 May 2001, PENDING Continuation-in-part of Ser. No. WO

20000628 (60)

20000711 (60)

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20000726 (60) 20000711 (60)

20000814 (60) 20000714 (60)

2001-US1346, filed on 17 Jan 2001, PENDING

NUMBER DATE

PRIORITY INFORMATION:

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US 2000-225758P

US 2000-220963P

US 2000-217496P US 2000-225447P

US 2000-218290P

damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a pAMG21 vector PCR primer used to ascertain that a pAMG21/rat FGF-16 construct had been produced in an

exemplification of the present invention.

ACCESSION NUMBER: AAZ55817 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

DANGUAGE: 2000-085497 [07]

DESCRIPTION: pAMG21 vector PCR primer, SEQ ID NO:28.

L16 ANSWER 9 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55816 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55815-Z55816 represent PCR primers used to clone rat FGF-16 cDNA (AAZ55790) into E. coli.

ACCESSION NUMBER: AAZ55816 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat FGF-16 PCR primer, SEQ ID NO:28.

L16 ANSWER 10 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55815 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

Sequences AAZ55815-Z55816 represent PCR primers used to clone rat FGF-16 cDNA (AAZ55790) into E. coli.

ACCESSION NUMBER: AAZ55815 DNA **DGENE**

Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

33p US 5998170 A 19991207 PATENT INFO:

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: 2000-085497 [07]
DESCRIPTION: Rat FGF-16 PCR primer, SEQ ID NO:27.

ANSWER 11 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates TI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

ΑN AAZ55814 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55813-Z55814 represent PCR primers used to detect human FGF-16 DNA in bacteria which had previously been transformed with a vector comprising human FGF-16 DNA.

ACCESSION NUMBER: AAZ55814 DNA **DGENE**

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 PATENT INFO: US 5998170 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: 2000-085497 [07]
DESCRIPTION: Rat FGF-16 PCP P

Rat FGF-16 PCR primer, SEQ ID NO:26. DESCRIPTION:

ANSWER 12 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates TI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55813 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin) . FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55813-Z55814 represent PCR primers used to detect human

FGF-16 DNA in bacteria which had previously been transformed with a vector comprising human FGF-16 DNA.

ACCESSION NUMBER: AAZ55813 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 PATENT INFO: US 5998170 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: 2000-085497 [07]
DESCRIPTION: Human FGF-16 PCR primer, SEQ ID NO:25.

ANSWER 13 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates ΤI

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AAZ55812 DNA DGENE AN

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55810-Z55812 represent PCR primers used in a PCR technique similar to 5' RACE (rapid amplification of cDNA ends) for extension and amplification of human genomic FGF-16 DNA sequences.

DGENE ACCESSION NUMBER: AAZ55812 DNA

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 PATENT INFO: US 5998170 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: 2000-085497 [07]

Rat FGF-16 genomic PCR primer, SEQ ID NO:24. DESCRIPTION:

ANSWER 14 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates TΙ proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55811 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55810-Z55812 represent PCR primers used in a PCR technique similar to 5' RACE (rapid amplification of cDNA ends) for extension and amplification of human genomic FGF-16 DNA sequences.

ACCESSION NUMBER: AAZ55811 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

US 5998170 A 19991207 PATENT INFO: 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2000-08

2000-085497 [07]

DESCRIPTION: Human FGF-16 genomic PCR primer, SEQ ID NO:23.

ANSWER 15 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates TI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

ANAAZ55810 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55810-Z55812 represent PCR primers used in a PCR technique similar to 5' RACE (rapid amplification of cDNA ends) for extension and amplification of human genomic FGF-16 DNA sequences.

ACCESSION NUMBER: AAZ55810 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

US 5998170 A 19991207 PATENT INFO: 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

2000-085497 [07] OTHER SOURCE:

DESCRIPTION: Human FGF-16 partially random genomic PCR primer, SEQ ID

NO:22.

ANSWER 16 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates ΤI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

ΑN AAZ55809 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55809 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 PCR primer, SEQ ID NO:21.

L16 ANSWER 17 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55808 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55808 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 5' RACE PCR primer, SEQ ID NO:20.

L16 ANSWER 18 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55807 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55807 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 33p PATENT INFO: US 5998170

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

Patent DOCUMENT TYPE: English LANGUAGE:

2000-085497 [07] OTHER SOURCE:

Human FGF-16 5' RACE PCR primer, SEQ ID NO:19. DESCRIPTION:

ANSWER 19 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates TI proliferation and growth of hepatocytes is useful for treating hepatic

disorders -

DGENE AN AAZ55806 DNA

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55806 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 PATENT INFO: US 5998170 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

Human FGF-16 partially random 5' RACE PCR primer, SEQ ID DESCRIPTION:

NO:18 (E).

ANSWER 20 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates TI

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AAZ55805 DNA **DGENE** AN

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55805 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

US 5998170 A 19991207 PATENT INFO: 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]
DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (D).

ANSWER 21 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic

AAZ55804 DNA DGENE AN

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triqlycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55804 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H **INVENTOR:**

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent

LANGUAGE: English
OTHER SOURCE: 2000-085497 [07]
DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (C).

ANSWER 22 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT ON STN L16

Fibroblast growth factor family polypeptide which stimulates TΙ

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

ΑN AAZ55803 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55803 DNA DGENE TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (B).

L16 ANSWER 23 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic

AN AAZ55802 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55802 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (A).

L16 ANSWER 24 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55801 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55801 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 5' RACE PCR primer, SEQ ID NO:16.

L16 ANSWER 25 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55800 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a PCR primer used with primer AAZ55799 in 3' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55800 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 3' RACE PCR primer, SEQ ID NO:15.

L16 ANSWER 26 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55799 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a primer used to synthesise first strand cDNA from human heart polyA+ RNA, and also used as a PCR primer in 3' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55799 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Reverse transcription/human FGF-16 3' RACE PCR primer, SEQ ID

NO:14.

L16 ANSWER 27 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55798 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present

ACCESSION NUMBER: AAZ55798 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

invention.

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human fibroblast growth factor FGF-16 PCR primer, SEQ ID

NO:132.

L16 ANSWER 28 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55797 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55797 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 PATENT INFO: US 5998170 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

2000-085497 [07]

OTHER SOURCE: DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:12.

ANSWER 29 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates TT proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55796 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AΒ (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55796 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

US 5998170 A 19991207 PATENT INFO: 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

2000-085497 [07]

OTHER SOURCE: DESCRIPTION: Human heart polyA+ RNA reverse transcription primer, SEQ ID

NO:11.

ANSWER 30 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates TТ

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

NΑ AAZ55795 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AΒ (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present

invention.

ACCESSION NUMBER: AAZ55795 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:10.

L16 ANSWER 31 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55794 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55794 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:9.

- L16 ANSWER 32 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
- TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -
- AN AAZ55793 DNA DGENE
- The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present

invention.

ACCESSION NUMBER: AAZ55793 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:8.

L16 ANSWER 33 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic

disorders -

AN AAZ55792 cDNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a rat fibroblast growth factor-16 partial cDNA, used to design PCR primers to isolate CDNA encoding human FGF-16 in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55792 cDNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 partial cDNA.

L16 ANSWER 34 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55791 cDNA DGENE

This sequence represents cDNA encoding human fibroblast growth factor-16 (FGF-16). FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAZ55791 cDNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

US 5998170 A 19991207 PATENT INFO: 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07] CROSS REFERENCES: P-PSDB: AAY58429

DESCRIPTION: cDNA encoding human fibroblast growth factor FGF-16.

ANSWER 35 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 Fibroblast growth factor family polypeptide which stimulates TI

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AAZ55790 cDNA **DGENE** AN

AB This sequence represents cDNA encoding rat fibroblast growth factor-16 (FGF-16). FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure,

ACCESSION NUMBER: AAZ55790 cDNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

damage caused by acute viral hepatitis and toxic insults to the liver.

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

US 5998170 A 19991207 PATENT INFO: 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English OTHER SOURCE: 2000-089

2000-085497 [07] CROSS REFERENCES: P-PSDB: AAY58428

DESCRIPTION: cDNA encoding rat fibroblast growth factor FGF-16.

=> d his

L8

(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

L113014 S RANTES

2849 S ALBUMIN FUSION PROTEIN L2

L3 8 S L1 AND L2

1364 S FGF-8 L4

L5 509 S L4 AND ALBUMIN L6

491 S L5 AND FUSION

L7 207 S L6 AND L1

0 S L7 AND STABILIZER

6424 S FUSION PARTNER L9

L10 2467 S L9 AND ALBUMIN

L11 176 S L9 AND BMP

L12 141 S L11 AND L10 L13 101 S L12 AND L1

L142849 S ALBUMIN () FUSION PROTEIN

O S ALBUMIN () BMP L15 35 S ALBUMIN () FGF L16

Hit List



Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 4563489 A

L2: Entry 1 of 1

File: USPT

Jan 7, 1986

US-PAT-NO: 4563489

DOCUMENT-IDENTIFIER: US 4563489 A

TITLE: Biodegradable organic polymer delivery system for bone morphogenetic protein

DATE-ISSUED: January 7, 1986

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Urist; Marshall R.

Pacific Palisades

CA

 $\text{US-CL-CURRENT: } \underline{514/21}; \ \underline{424/426}, \ \underline{523/115}, \ \underline{524/17}, \ \underline{524/21}, \ \underline{604/891.1}, \ \underline{623/915}$

Full T	itle Citation	Front	Review	Classification	Date	Reference	Sequences	. Alterson	enio Claims	KoolC	Drami De
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☐ 1. Document ID: US 6025194 A

L8: Entry 1 of 2

File: USPT

Feb 15, 2000

US-PAT-NO: 6025194

DOCUMENT-IDENTIFIER: US 6025194 A

TITLE: Nucleic acid sequence of senescence asssociated gene

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Funk; Walter

Hayward

CA

US-CL-CURRENT: 435/320.1; 435/325, 536/23.1, 536/23.5, 536/24.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Securences | Attechnients | Claims | KMC | Draw, Do

☐ 2. Document ID: US 5733541 A

L8: Entry 2 of 2

File: USPT

Mar 31, 1998

US-PAT-NO: 5733541

DOCUMENT-IDENTIFIER: US 5733541 A

** See image for <u>Certificate of Correction</u> **

TITLE: Hematopoietic cells: compositions and methods

DATE-ISSUED: March 31, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE

ef

b

ZIP CODE

COUNTRY

Taichman; Russell S.

Ann Arbor

MI

Emerson; Stephen G.

Wayne

PΑ

US-CL-CURRENT: 424/93.1; 424/93.7, 435/325, 435/347, 435/373, 435/375, 435/377

Full Title Citation Front Review Classification Date Reference Sequences (Stractingents) Claims KMC Draw. De

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Freeform Search

Database:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins	·			
Term:	albumin and fusion protein	Starting with Number 1			
Display: 10 Documents in Display Format: CIT Starting with Number 1 Generate: C Hit List 6 Hit Count C Side by Side C Image					
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	Search History				

DATE: Friday, January 16, 2004 Printable Copy Create Case

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<u>L5</u>	human chemokine and albumin	314787	<u>L5</u>
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<u>L3</u>	albumin fused to BMP	159316	<u>L3</u>
<u>L2</u>	albumin adj2 BMP	1	<u>L2</u>
L1	albumin and fusion protein	144237	L1

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20000418 (60) US 2000-198123P US 2000-227009P 20000823 (60) US 2000-235484P 20000926 (60) US 2000-190076P 20000317 (60) US 2000-209467P 20000607 (60) 20000519 (60) US 2000-205515P 20010105 (60) US 2001-259678P

Utility DOCUMENT TYPE: APPLICATION FILE SEGMENT:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 20415 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 10 OF 101 USPATFULL on STN

Novel methods of diagnosis of metastatic colorectal cancer, compositions TI and methods of screening for modulators of metastatic colorectal cancer

Described herein are methods and compositions that can be used for ΔR diagnosis and treatment of metastatic colorectal cancer. Also described herein are methods that can be used to identify modulators of metastatic colorectal cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:334944 USPATFULL ACCESSION NUMBER:

Novel methods of diagnosis of metastatic colorectal TITLE:

cancer, compositions and methods of screening for

modulators of metastatic colorectal cancer

Mack, David H., Menlo Park, CA, UNITED STATES INVENTOR(S):

Markowitz, Sanford David, Pepper Pike, OH, UNITED

Eos Biotechnology, Inc., South San Francisco, CA (U.S. PATENT ASSIGNEE(S):

corporation)

KIND DATE NUMBER ______ US 2003235820 A1 20031225 PATENT INFORMATION: A1 20020227 (10) US 2002-87080

APPLICATION INFO.:

NUMBER DATE _____

US 2001-284555P 20010417 (60) PRIORITY INFORMATION: 20010402 (60)

US 2001-281149P 20010227 (60) US 2001-272206P

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO

CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

NUMBER OF CLAIMS: 21 EXEMPLARY CLAIM: 1 LINE COUNT: 22670

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

13014 S RANTES L1

2849 S ALBUMIN FUSION PROTEIN L2

8 S L1 AND L2 L3

```
1364 S FGF-8
L4
           509 S L4 AND ALBUMIN
L5
           491 S L5 AND FUSION
L6
           207 S L6 AND L1
L7
L8
              0 S L7 AND STABILIZER
L9
           6424 S FUSION PARTNER
           2467 S L9 AND ALBUMIN
L10
           176 S L9 AND BMP
L11
           141 S L11 AND L10
L12
           101 S L12 AND L1
L13
=> s albumin () fusion protein
         2849 ALBUMIN (W) FUSION PROTEIN
T.14
=> s albumin () BMP
            O ALBUMIN (W) BMP
1.15
=> s albumin () FGF
1.16
           35 ALBUMIN (W) FGF
=> d l16 ti abs ibib tot
      ANSWER 1 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
L16
      Fibroblast growth factor family polypeptide which stimulates
TI
      proliferation and growth of hepatocytes is useful for treating hepatic
      disorders -
      AAY58432 Protein
                              DGENE
NΑ
      This sequence represents a truncated rat fibroblast growth factor-16
AB
      (FGF-16) des-N-9, where residues 1-9 of the full-length rat FGF-16
      (AAY58428) have been removed by proteolytic cleavage. FGF-16 has
      hepatocyte proliferation and growth activity, and increases hepatic
      production of triglycerides and serum proteins (e.g., albumin).
      FGF-16 nucleic acids and/or proteins may be used for stimulating
      the proliferation and development of hepatocytes both in vitro and in
      vivo. The isolated nucleic acid molecules may be used directly in cell or
      gene therapy applications to treat or prevent liver disorders, including
      hepatic cirrhosis, fulminant liver failure, damage caused by acute viral
      hepatitis and toxic insults to the liver.
ACCESSION NUMBER: AAY58432 Protein
                                          DGENE
                  Fibroblast growth factor family polypeptide which stimulates
TITLE:
                  proliferation and growth of hepatocytes is useful for
                  treating hepatic disorders -
INVENTOR:
                  Arakawa T; Itoh N; Danilenko D M; Martin F H
PATENT ASSIGNEE: (AMGE-N) AMGEN INC.
                              A 19991207
                 US 5998170
                                                           33p
PATENT INFO:
APPLICATION INFO: US 1997-943915 19971003
PRIORITY INFO: US 1997-943915
                                   19971003
DOCUMENT TYPE:
                 Patent
LANGUAGE:
                 English
OTHER SOURCE:
                  2000-085497 [07]
                Rat truncated fibroblast growth factor FGF-16, des-N-9.
DESCRIPTION:
      ANSWER 2 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
L16
TI
      Fibroblast growth factor family polypeptide which stimulates
      proliferation and growth of hepatocytes is useful for treating hepatic
      disorders -
      AAY58431 Protein
                              DGENE
AN
      This sequence represents a truncated rat fibroblast growth factor-16
AB
      (FGF-16) des-N-34, where residues 1-34 of the full-length rat FGF-16
      (AAY58428) have been removed by proteolytic cleavage. FGF-16 has
      hepatocyte proliferation and growth activity, and increases hepatic
      production of triglycerides and serum proteins (e.g., albumin).
      FGF-16 nucleic acids and/or proteins may be used for stimulating
```

the proliferation and development of hepatocytes both in vitro and in

```
Welcome to STN International! Enter x:x
LOGINID:ssspta1653hxp
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
                      Welcome to STN International
                  Web Page URLs for STN Seminar Schedule - N. America
 NEWS
                  "Ask CAS" for self-help around the clock
NEWS
NEWS
          SEP 09
                  CA/CAplus records now contain indexing from 1907 to the
                  present
                  INPADOC: Legal Status data reloaded
 NEWS
          DEC 08
          SEP 29
                  DISSABS now available on STN
 NEWS
 NEWS
       6
          OCT 10
                  PCTFULL: Two new display fields added
 NEWS
          OCT 21
                  BIOSIS file reloaded and enhanced
                  BIOSIS file segment of TOXCENTER reloaded and enhanced
 NEWS
          OCT 28
       8
                  MSDS-CCOHS file reloaded
 NEWS
          NOV 24
       9
 NEWS 10
          DEC 08
                  CABA reloaded with left truncation
 NEWS 11
          DEC 08
                  IMS file names changed
         DEC 09
                  Experimental property data collected by CAS now available
 NEWS 12
                  in REGISTRY
                  STN Entry Date available for display in REGISTRY and CA/CAplus
 NEWS 13
          DEC 09
          DEC 17
                  DGENE: Two new display fields added
NEWS 14
NEWS 15
          DEC 18
                  BIOTECHNO no longer updated
         DEC 19
                  CROPU no longer updated; subscriber discount no longer
 NEWS 16
                  available
                  Additional INPI reactions and pre-1907 documents added to CAS
         DEC 22
 NEWS 17
                  databases
         DEC 22
                  IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
 NEWS 18
NEWS 19 DEC 22
                  ABI-INFORM now available on STN
               DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
NEWS EXPRESS
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
NEWS HOURS
               STN Operating Hours Plus Help Desk Availability
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               General Internet Information
 NEWS LOGIN
               Welcome Banner and News Items
NEWS PHONE
               Direct Dial and Telecommunication Network Access to STN
 NEWS WWW
               CAS World Wide Web Site (general information)
Enter NEWS followed by the item number or name to see news on that
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FILE 'HOME' ENTERED AT 12:22:40 ON 16 JAN 2004

=> file medline, uspatful, biosis, fsta, wpids, japio, jicst, embase, dgene, biobusiness

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:23:20 ON 16 JAN 2004

FILE 'USPATFULL' ENTERED AT 12:23:20 ON 16 JAN 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'FSTA' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 International Food Information Service

FILE 'WPIDS' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'JAPIO' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 Japanese Patent Office (JPO) - JAPIO

FILE 'JICST-EPLUS' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 Japan Science and Technology Agency (JST)

FILE 'EMBASE' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 Elsevier Inc. All rights reserved.

FILE 'DGENE' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'BIOBUSINESS' ENTERED AT 12:23:20 ON 16 JAN 2004 COPYRIGHT (C) 2004 Biological Abstracts, Inc. (BIOSIS)

=> s albumin fusion protein
L1 2849 ALBUMIN FUSION PROTEIN

=> s BMP-1 and albumin
9 FILES SEARCHED...

L2 193 BMP-1 AND ALBUMIN

=> s 12 and 11

AΒ

L3 0 L2 AND L1

=> d 12 ti abs ibib 1-10

L2 ANSWER 1 OF 193 USPATFULL on STN

TI Novel proteins and nucleic acids encoding same

Disclosed herein are nucleic acid sequences that encode novel polypeptides. Also disclosed are polypeptides encoded by these nucleic acid sequences, and antibodies, which immunospecifically-bind to the polypeptide, as well as derivatives, variants, mutants, or fragments of the aforementioned polypeptide, polynucleotide, or antibody. The invention further discloses therapeutic, diagnostic and research methods for diagnosis, treatment, and prevention of disorders involving any one of these novel human nucleic acids and proteins.

ACCESSION NUMBER: TITLE:

INVENTOR (S):

2004:13595 USPATFULL

Novel proteins and nucleic acids encoding same Zerhusen, Bryan D., Branford, CT, UNITED STATES Padigaru, Muralidhara, Branford, CT, UNITED STATES Spytek, Kimberly, New Haven, CT, UNITED STATES Spaderna, Steven, Berlin, CT, UNITED STATES Gangolli, Esha A., Branford, CT, UNITED STATES Rastelli, Luca, Guilford, CT, UNITED STATES

Burgess, Catherine E., Wethersfield, CT, UNITED STATES Majumder, Kumud, Stamford, CT, UNITED STATES Shimkets, Richard, West Haven, CT, UNITED STATES Mishra, Vishnu, Branford, CT, UNITED STATES Vernet, Corine, North Branford, CT, UNITED STATES Szekeres, Edward S., Branford, CT, UNITED STATES Grosse, William M., Branford, CT, UNITED STATES Alsobrook, John P., II, Madison, CT, UNITED STATES Liu, Xiaohong, Branford, CT, UNITED STATES Gerlach, Valerie L., Branford, CT, UNITED STATES Ellerman, Karen, Branford, CT, UNITED STATES Smithson, Glennda, Branford, CT, UNITED STATES Peyman, John, New Haven, CT, UNITED STATES Stone, David, Guilford, CT, UNITED STATES

	NUMBER	KIND DATE	
PATENT INFORMATION:	US 2004010118	A1 20040115	
APPLICATION INFO.:	US 2001-930512	A1 20010815	(9)
	NUMBER	DATE	
PRIORITY INFORMATION:	US 2000-225692P US 2000-225693P	20000816 (60) 20000816 (60)	
	US 2000-225837P	20000816 (60)	
	US 2000-226236P US 2000-226353P	20000818 (60) 20000818 (60)	

US 2000-226353P 20000818 (60) US 2000-227085P 20000822 (60) US 2000-227395P 20000823 (60) US 2000-227492P 20000824 (60) US 2000-227600P 20000824 (60) US 2001-275952P 20010314 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MINTZ, LEVIN, COHN, FERRIS, GLOVSKY, AND POPEO, P.C.,

ONE FINANCIAL CENTER, BOSTON, MA, 02111

NUMBER OF CLAIMS: 49
EXEMPLARY CLAIM: 1
LINE COUNT: 9358

L2 ANSWER 2 OF 193 USPATFULL on STN

TI Methods of treatment of periodontal disease

AB Purified BMP-2 and BMP-4 proteins and processes for producing them are disclosed. The proteins may be used in the treatment of bone and cartilage defects and in wound healing and related tissue repair.

ACCESSION NUMBER: 2004:13394 USPATFULL

TITLE:

Methods of treatment of periodontal disease
INVENTOR(S):

Wang, Elizabeth, Carlisle, MA, UNITED STATES
Wozney, John M., Hudson, MA, UNITED STATES
Rosen, Vicki A., Brookline, MA, UNITED STATES

NUMBER

PATENT INFORMATION:	US 2004009916 A1 20040115
APPLICATION INFO.:	US 2003-397214 A1 20030327 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-804625, filed on 9 Mar 2001, PENDING Continuation of Ser. No. US 1997-925779, filed on 9 Sep 1997, GRANTED, Pat. No. US 6245889
	Continuation of Ser. No. US 1991-721847, filed on 14 Jun 1991, GRANTED, Pat. No. US 6150328
	Continuation-in-part of Ser. No. US 1990-493272, filed

KIND

DATE

on 14 Mar 1990, ABANDONED Continuation-in-part of Ser.

No. US 1989-406217, filed on 12 Sep 1989, ABANDONED Continuation-in-part of Ser. No. US 1989-378537, filed

on 11 Jul 1989, GRANTED, Pat. No. US 5166058

Utility DOCUMENT TYPE: APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow,, Garrett & Dunner,

L.L.P., 1300 I Street, N.W., Washington, DC, 20005-3315

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 7 Drawing Page(s)

1876 LINE COUNT:

ANSWER 3 OF 193 USPATFULL on STN L_2

Chondrogenic and osteogenic inducing molecule TI

The present invention is directed to methods of using and compositions AB comprising amelogenin peptides capable of inducing chondrogenesis and osteogenesis when implanted in vivo, a chondrogenesis in cultures in vitro. Compositions and methods of enhancing bone and cartilage growth using these peptides are described.

2004:9593 USPATFULL ACCESSION NUMBER:

Chondrogenic and osteogenic inducing molecule TITLE:

Veis, Arthur, Skokie, IL, United States INVENTOR(S):

Nebgen, Denise R., Houston, TX, United States

Northwestern University, Evanston, IL, United States PATENT ASSIGNEE(S):

(U.S. corporation)

KIND DATE NUMBER _____ US 6677306 B1 20040113 PATENT INFORMATION: WO 2000006734 20000210 US 2001-744128 20010516 (9) APPLICATION INFO : WO 1999-US17342 19990729

NUMBER DATE

US 1998-94489P 19980729 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility GRANTED FILE SEGMENT: Mertz, Prema PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Marshall, Gerstein & Borun LLP

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM:

16 Drawing Figure(s); 16 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 1877

ANSWER 4 OF 193 USPATFULL on STN L2

Treatment of inflammatory bowel disease using growth factors TI The present invention is based upon methods of treating inflammatory AB conditions in the intestinal tract of mammals using growth factor related polypeptides. The invention includes methods of reducing the mortality rate or delaying mortality in a subject suffering from an inflammatory pathology. Methods of using fibroblast growth factor-CX (FGF-CX) polynucleotides sequences and the FGF-CX polypeptides encoded by such nucleic acid sequence, or variants, fragments and homologs thereof, are claimed in the invention. Similarly, methods of using FCTRX polynucleotide sequences and the FCTRX polypeptides encoded by such nucleic acid sequences, or variants, fragments and homologs thereof, alone or in combination, are also claimed in the invention. FCTRX collectively refers to any of six variant FCTRX sequences, variously designated FCTR1, FCTR2, FCTR3, FCTR4, FCTR5 and FCTR6.

ACCESSION NUMBER: 2004:7775 USPATFULL

Treatment of inflammatory bowel disease using growth TITLE:

factors

INVENTOR(S):

Boldog, Ferenc L., North Haven, CT, UNITED STATES Burgess, Catherine E., Wethersfield, CT, UNITED STATES Fernandes, Elma R., Branford, CT, UNITED STATES Jeffers, Michael E., Branford, CT, UNITED STATES LaRochelle, William J., Madison, CT, UNITED STATES Lichenstein, Henri S., Guilford, CT, UNITED STATES Peterson, Jeffrey, Brookfield, CT, UNITED STATES Prayaga, Sudhirdas K., O'Fallon, MO, UNITED STATES Rittman, Beth, Colchester, CT, UNITED STATES Shimkets, Juliette B., Guilford, CT, UNITED STATES Shimkets, Richard A., Guilford, CT, UNITED STATES

NUMBER KIND DATE -----

PATENT INFORMATION:

US 2004006015 A1 20040108 US 2002-321962 A1 20021216

APPLICATION INFO .:

(10)

Yang, Meijia, East Lyme, CT, UNITED STATES

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 2001-11364, filed

on 16 Nov 2001, PENDING

NUMBER

PRIORITY INFORMATION:

US 2002-386545P 20020606 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

MINTZ, LEVIN, COHN, FERRIS, GLOVSKY, AND POPEO, P.C.,

ONE FINANCIAL CENTER, BOSTON, MA, 02111

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

73 Drawing Page(s)

LINE COUNT:

7115

ANSWER 5 OF 193 USPATFULL on STN L2

TI Proteins and nucleic acids encoding same

AB Disclosed are polypeptides and nucleic acids encoding same. Also disclosed are vectors, host cells, antibodies and recombinant methods for producing the polypeptides and polynucleotides, as well as methods for using same.

ACCESSION NUMBER:

2004:7342 USPATFULL

TITLE:

INVENTOR(S):

Proteins and nucleic acids encoding same

Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES

Li, Li, Branford, CT, UNITED STATES

Patturajan, Meera, Branford, CT, UNITED STATES Shimkets, Richard A., Guilford, CT, UNITED STATES Casman, Stacie J., North Haven, CT, UNITED STATES Malyankar, Uriel M., Branford, CT, UNITED STATES Tchernev, Velizar T., Branford, CT, UNITED STATES Vernet, Corine A., North Branford, CT, UNITED STATES Spytek, Kimberly A., New Haven, CT, UNITED STATES Shenoy, Suresh G., Branford, CT, UNITED STATES Alsobrook, John P., II, Madison, CT, UNITED STATES Edinger, Schlomit, New Haven, CT, UNITED STATES Peyman, John A., New Haven, CT, UNITED STATES Stone, David J., Guilford, CT, UNITED STATES Ellerman, Karen, Branford, CT, UNITED STATES

Gangolli, Esha A., Madison, CT, UNITED STATES Boldog, Ferenc L., North Haven, CT, UNITED STATES Colman, Steven D., Guilford, CT, UNITED STATES

Eisen, Andrew, Rockville, MD, UNITED STATES Liu, Xiaohong, Lexington, MA, UNITED STATES

Padigaru, Muralidhara, Branford, CT, UNITED STATES Spaderna, Steven K., Berlin, CT, UNITED STATES

Zerhusen, Bryan D., Branford, CT, UNITED STATES

	NUMBER KIND DATE
PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:	US 2004005576 A1 20040108 US 2002-231913 A1 20020830 (10) Continuation of Ser. No. US 2001-10680, filed on 6 Dec 2001, PENDING
	NUMBER DATE
PRIORITY INFORMATION:	US 2000-251660P 20001206 (60) US 2001-260326P 20010108 (60) US 2001-318712P 20010912 (60) US 2000-255029P 20001212 (60) US 2001-263800P 20010124 (60) US 2001-286183P 20010424 (60) US 2001-269942P 20010220 (60) US 2001-313627P 20010620 (60)
DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	
NUMBER OF CLAIMS:	41
EXEMPLARY CLAIM:	1
LINE COUNT:	17887
encoding them, a disclosed. The p least 70% identi 258-370 of SEQ I disclosed. The p can be used in t	th factors, methods of making them, polynucleotides intibodies to them, and methods of using them are colypeptides comprise an amino acid segment that is at cal to residues 52-179 of SEQ ID NO:2 or residues ID NO:2. Multimers of the polypeptides are also colypeptides, multimeric proteins, and polynucleotides the study and regulation of cell and tissue development, cell culture media, and as diagnostic agents.
ACCESSION NUMBER:	2004:2119 USPATFULL
TITLE:	Growth factor homolog ZVEGF4
INVENTOR(S):	Gilbert, Teresa, Seattle, WA, UNITED STATES Hart, Charles E., Woodinville, WA, UNITED STATES Sheppard, Paul O., Granite Falls, WA, UNITED STATES Gilbertson, Debra G., Seattle, WA, UNITED STATES
	NUMBER KIND DATE
PATENT INFORMATION:	US 2004002140 A1 20040101
APPLICATION INFO.:	US 2001-876813 A1 20010606 (9)
RELATED APPLN. INFO.:	
	NUMBER DATE
PRIORITY INFORMATION:	US 1999-132250P 19990503 (60) US 1999-164463P 19991110 (60) US 2000-180169P 20000204 (60)
DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	Gary E. Parker, ZymoGenetics, Inc., Patent Department,
	1201 Eastlake Avenue East, Seattle, WA, 98102
NUMBER OF CLAIMS:	54
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	8 Drawing Page(s)

LINE COUNT: 5092

ANSWER 7 OF 193 USPATFULL on STN L2

Bone morphogenic protein polynucleotides, polypeptides, and antibodies

TI The present invention relates to novel human BMP polypeptides and AΒ isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human BMP polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human BMP polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:318756 USPATFULL ACCESSION NUMBER:

Bone morphogenic protein polynucleotides, polypeptides, TITLE:

and antibodies

Young, Paul E., Gaithersburg, MD, UNITED STATES INVENTOR (S):

Ruben, Steven M., Brookeville, MD, UNITED STATES

KIND DATE NUMBER ______ US 2003224501 A1 20031204 US 2003-366345 A1 20030214 (10) PATENT INFORMATION: APPLICATION INFO.:

Continuation-in-part of Ser. No. US 2003-345236, filed RELATED APPLN. INFO.:

on 16 Jan 2003, PENDING Continuation-in-part of Ser. No. US 2001-809269, filed on 16 Mar 2001, ABANDONED Continuation-in-part of Ser. No. WO 2001-US9229, filed

on 23 Mar 2001, PENDING

NUMBER -----US 2002-356749P 20020215 (60) PRIORITY INFORMATION: US 2000-190067P 20000317 (60) US 2002-348621P 20020117 (60) US 2002-349356P 20020122 (60) US 2002-351520P 20020128 (60) US 2002-354265P 20020206 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 42 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 23 Drawing Page(s) LINE COUNT: 16963

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 193 USPATFULL on STN L2

TI Sulfonamide compounds

This invention relates to certain sulfonamide derivatives that are AB inhibitors of procollagen C-proteinase, pharmaceutical compositions containing them, methods for their use and methods for preparing these compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:306969 USPATFULL ACCESSION NUMBER: Sulfonamide compounds TITLE:

Billledeau, Roland Joseph, Santa Clara, CA, UNITED INVENTOR(S):

STATES

Broka, Chris Allen, Foster City, CA, UNITED STATES Campbell, Jeffrey Allen, Middletown, CT, UNITED STATES Chen, Jian Jeffrey, Santa Clara, CA, UNITED STATES Dankwardt, Sharon Marie, Foster City, CA, UNITED STATES

Delaet, Nancy, San Diego, CA, UNITED STATES

Robinson, Leslie Ann, San Diego, CA, UNITED STATES Walker, Keith Adrian Murray, Los Altos, CA, UNITED STATES

		NUMBER	KIND	DATE
PATENT	INFORMATION:	US 2003216405	A1	20031120

APPLICATION INFO.: US 2002-267727 A1 20021009 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 1999-469660, filed on 22 Dec 1999, GRANTED, Pat. No. US 6492394

NUMBER DATE ______

PRIORITY INFORMATION: US 1998-113311P 19981222 (60)
US 1999-147053P 19990803 (60)
US 1999-164138P 19991108 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: ROCHE PALO ALTO LLC, 3431 HILLVIEW AVENUE, PATENT DEPT., M/S A2-250, PALO ALTO, CA, 94304

52 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 3904 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 9 OF 193 USPATFULL on STN

Composition and method for modulating vasculogenesis or angiogenesis TI A method for modulating vasculogenesis or angiogenesis using the core AB domain protein of PDGF-C, a new member of the PDGF/VEGF family of growth factors, or a homodimer or a heterodimer comprising the core domain. Also disclosed are pharmaceutical compositions comprising the core protein, nucleotide sequences encoding the protein, and uses thereof in medical and diagnostic applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:300768 USPATFULL

Composition and method for modulating vasculogenesis or TITLE:

angiogenesis

Li, Xuri, Stockholm, SWEDEN INVENTOR(S): Eriksson, Ulf, Stockholm, SWEDEN

Carmeliet, Peter, Leuven, BELGIUM Collen, Desire, Leuven, BELGIUM

Ludwig Institute for Cancer Research (non-U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE _____ PATENT INFORMATION: US 2003211994 A1 20031113 APPLICATION INFO.: US 2002-303997 A1 20021126 (10)

Continuation-in-part of Ser. No. US 1999-410349, filed RELATED APPLN. INFO.:

on 30 Sep 1999, PENDING

NUMBER DATE _____ PRIORITY INFORMATION: US 1998-102461P 19980930 (60) US 1998-108109P 19981112 (60) US 1998-110749P 19981203 (60) US 1998-113002P 19981218 (60) US 1999-135426P 19990521 (60) US 1999-144022P 19990715 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

CROWELL & MORING LLP, INTELLECTUAL PROPERTY GROUP, P.O. LEGAL REPRESENTATIVE:

BOX 14300, WASHINGTON, DC, 20044-4300

NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 42 Drawing Page(s)

LINE COUNT: 2790

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 10 OF 193 USPATFULL on STN

TI OSTEOPROTEGERIN

The present invention discloses a novel secreted polypeptide, termed osteoprotegerin, which is a member of the tumor necrosis factor receptor superfamily and is involved in the regulation of bone metabolism. Also disclosed are nucleic acids encoding osteoprotegerin, polypeptides, recombinant vectors and host cells for expression, antibodies which bind OPG, and pharmaceutical compositions. The polypeptides are used to treat bone diseases characterized by increased resorption such as osteoporosis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:294810 USPATFULL

TITLE: OSTEOPROTEGERIN

INVENTOR(S): BOYLE, WILLIAM J., MOORPARK, CA, UNITED STATES LACEY, DAVID L., THOUSAND OAKS, CA, UNITED STATES

CALZONE, FRANK J., WEST LAKE VILLAGE, CA, UNITED STATES

CHANG, MING-SHI, NEWBURY PARK, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003207827 A1 20031106
APPLICATION INFO.: US 1999-405032 A1 19990924 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1998-132985, filed on 12

Aug 1998, PENDING Continuation of Ser. No. US 1996-771777, filed on 20 Dec 1996, ABANDONED

Continuation-in-part of Ser. No. US 1996-706945, filed

on 3 Sep 1996, GRANTED, Pat. No. US 6369027

Continuation-in-part of Ser. No. US 1995-577788, filed

on 22 Dec 1995, PENDING

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: AMGEN INCORPORATED, MAIL STOP 27-4-A, ONE AMGEN CENTER

DRIVE, THOUSAND OAKS, CA, 91320-1799

NUMBER OF CLAIMS: 60 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 46 Drawing Page(s)

LINE COUNT: 5457

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 12:22:40 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, BIOSIS, FSTA, WPIDS, JAPIO, JICST-EPLUS, EMBASE, DGENE, BIOBUSINESS' ENTERED AT 12:23:20 ON 16 JAN 2004

L1 2849 S ALBUMIN FUSION PROTEIN

L2 193 S BMP-1 AND ALBUMIN

L3 0 S L2 AND L1

=> s 11 and FGF-16

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FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004

=> file medline, uspatful, dgene, embase, wpids, fsta, jicst, biosis
COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 12:39:04 ON 16 JAN 2004

FILE 'USPATFULL' ENTERED AT 12:39:04 ON 16 JAN 2004 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE 'JICST-EPLUS' ENTERED AT 12:39:04 ON 16 JAN 2004 COPYRIGHT (C) 2004 Japan Science and Technology Agency (JST)

FILE 'BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004 COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

=> s Rantes

L1 13014 RANTES

=> s albumin fusion protein L2 2849 ALBUMIN FUSION PROTEIN

=> s l1 and l2

L3 8 L1 AND L2

=> d 13 ti abs ibib tot

L3 ANSWER 1 OF 8 USPATFULL on STN

TI Albumin fusion proteins
AB The present invention e

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

ACCESSION NUMBER:

2004:13611 USPATFULL Albumin fusion proteins

TITLE: INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

	NUMBER	KIND	DATE	
•				
PATENT INFORMATION:	US 2004010134	A1	20040115	
APPLICATION INFO.:	US 2001-833245	A1	20010412	(9)

NUMBER DATE

PRIORITY INFORMATION: US 2000-256931P 20001221 (60) US 2000-199384P 20000425 (60)

US 2000-229358P 20000412 (60)

Utility DOCUMENT TYPE: APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 1 29 EXEMPLARY CLAIM:

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 25066

ANSWER 2 OF 8 USPATFULL on STN L3

Albumin fusion proteins ΤI

The present invention encompasses albumin fusion proteins. Nucleic acid AB molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:312278 USPATFULL TITLE: Albumin fusion proteins

Rosen, Craig A., Laytonsville, MD, UNITED STATES INVENTOR(S): Haseltine, William A., Washington, DC, UNITED STATES

KIND DATE NUMBER _____ PATENT INFORMATION: US 2003219875 A1 20031127 APPLICATION INFO.: US 2001-833118 A1 20010412 (9)

> NUMBER DATE ______

PRIORITY INFORMATION:

US 2000-256931P 20001221 (60) US 2000-199384P 20000425 (60) US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility

APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

29 NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 18 Drawing Page(s)

15415 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 3 OF 8 USPATFULL on STN L3

Albumin fusion proteins ΤI

The present invention encompasses albumin fusion proteins. Nucleic acid AB molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. ACCESSION NUMBER: 2003:282700 USPATFULL TITLE:

Albumin fusion proteins

INVENTOR(S):

Ballance, David J., Berwyn, PA, UNITED STATES Sleep, Darrell, West Bridgford, UNITED KINGDOM Prior, Christopher P., Rosemont, PA, UNITED STATES Sadeghi, Homayoun, Doylestown, PA, UNITED STATES Turner, Andrew J., Eagleville, PA, UNITED STATES

NUMBER	KIND	DATE
110 2002100042	ד ת	20031023

PATENT INFORMATION: APPLICATION INFO.:

US 2003199043 A1 20031023 US 2001-832501 A1 20010412 (9)

NUMBER DATE ______

PRIORITY INFORMATION:

US 2000-256931P 20001221 (60) US 2000-199384P 20000425 (60) US 2000-229358P 20000412 (60)

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

18 Drawing Page(s)

14339 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 8 USPATFULL on STN L3

Neutrokine-alpha and neutrokine-alpha splice variant ΤI

AB

The present invention relates to nucleic acid molecules encoding Neutrokine-alpha and/or Neutrokine-alphaSV polypeptides, including soluble forms of the extracellular domain. Neutrokine-alpha and/or Neutrokine-alphaSV polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to antibodies or portions thereof that specifically bind Neutrokine-alpha and/or Neutrokine-alphaSV and diagnostic and therapeutic methods using these antibodies. Also provided are diagnostic methods for detecting immune system-related disorders and therapeutic methods for treating immune system-related disorders using the compositions of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:250423 USPATFULL

TITLE:

Neutrokine-alpha and neutrokine-alpha splice variant

INVENTOR(S):

Yu, Guo-Liang, Berkeley, CA, UNITED STATES

Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

Ni, Jian, Germantown, MD, UNITED STATES

Rosen, Craig A., Laytonsville, MD, UNITED STATES Ullrich, Stephen, Rockville, MD, UNITED STATES Laird, Michael, Germantown, MD, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003175208	A1	20030918
APPLICATION INFO.:	US 2002-270487	A1	20021016

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 2001-929493, filed on 15 Aug 2001, PENDING Continuation-in-part of Ser. No. US 2000-588947, filed on 8 Jun 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-589285, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No.

(10)

US 2000-589286, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-589287, filed on 8 Jun 2000, GRANTED, Pat. No. US 6403770 Continuation-in-part of Ser. No. US 2000-589288, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-507968, filed on 22 Feb 2000, PENDING Continuation-in-part of Ser. No. US 1999-255794, filed on 23 Feb 1999, PENDING Continuation-in-part of Ser. No. US 2000-588947, filed on 8 Jun 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-589285, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-589286, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-589288, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-507968, filed on 22 Feb 2000, PENDING Continuation-in-part of Ser. No. US 1999-255794, filed on 23 Feb 1999, PENDING Continuation-in-part of Ser. No. US 1998-5874, filed on 12 Jan 1998, PENDING Continuation-in-part of Ser. No. WO 1996-US17957, filed on 25 Oct 1996, PENDING Continuation-in-part of Ser. No. US 1999-255794, filed on 23 Feb 1999, PENDING Continuation-in-part of Ser. No. US 1998-5874, filed on 12 Jan 1998, PENDING

DATE

PRIORITY INFORMATION:

_____ US 2001-329508P 20011017 (60) US 2001-329747P 20011018 (60) 20011031 (60) US 2001-330835P 20011116 (60) US 2001-331478P 20011207 (60) US 2001-336726P US 2002-368548P 20020401 (60) 20000815 (60) US 2000-225628P 20000823 (60) US 2000-227008P 20000922 (60) US 2000-234338P 20001017 (60) US 2000-240806P 20001130 (60) US 2000-250020P 20010316 (60) US 2001-276248P 20010525 (60) US 2001-293499P 20010607 (60) US 2001-296122P 20010713 (60) US 2001-304809P 19990302 (60) US 1999-122388P 19990312 (60) US 1999-124097P 19990326 (60) US 1999-126599P 19990402 (60) US 1999-127598P 19990416 (60) US 1999-130412P US 1999-130696P 19990423 (60) 19990427 (60) US 1999-131278P 19990429 (60) US 1999-131673P 19990528 (60) US 1999-136784P 19990706 (60) US 1999-142659P 19990727 (60) US 1999-145824P 19991124 (60) US 1999-167239P 19991203 (60) US 1999-168624P 19991216 (60) US 1999-171108P US 1999-171626P 19991223 (60) US 2000-176015P 20000114 (60) US 1999-122388P 19990302 (60) US 1999-124097P 19990312 (60) 19990326 (60) US 1999-126599P US 1999-127598P 19990402 (60) US 1999-130412P 19990416 (60) 19990423 (60) US 1999-130696P 19990427 (60) US 1999-131278P 19990429 (60) US 1999-131673P 19990528 (60) US 1999-136784P

NUMBER

US 1999-142659P 19990706 (60)
US 1999-145824P 19990727 (60)
US 1999-167239P 19991124 (60)
US 1999-168624P 19991203 (60)
US 1999-171108P 19991216 (60)
US 1999-171626P 19991223 (60)
US 2000-176015P 20000114 (60)
US 1997-36100P 19970114 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 44 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 27 Drawing Page(s)

LINE COUNT: 18884

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 8 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:244853 USPATFULL
TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

Sadeghi, Homayoun, Doylestown, PA, UNITED STATES Prior, Christopher P., Rosemont, PA, UNITED STATES Turner, Andrew J., Eagleville, PA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003171267	A1	20030911	
APPLICATION INFO.:	US 2001-833117	A1	20010412	(9)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 59 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 20 Drawing Page(s)

LINE COUNT: 13208

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 8 USPATFULL on STN

TI Chemokine beta-1 fusion proteins

AB The present invention relates to novel chemokine polypeptides and encoding nucleic acids. More specifically, therapeutic compositions and methods are provided using isolated nucleic acid molecules encoding a

human chemokine beta-1 (Ck.beta.-1 or Ckb1) polypeptide (previously termed monocyte-colony inhibitory factor (M-CIF), MIP1-.gamma., and Hemofiltrate CC chemokine-1 (HCC-1)), and Ckb1 polypeptides themselves, as are vectors, host cells and recombinant methods for producing the same. Also provided are methods of treating, preventing, ameliorating diseases using such compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:206834 USPATFULL

Chemokine beta-1 fusion proteins TITLE:

Bell, Adam, Germantown, MD, UNITED STATES INVENTOR(S):

Ruben, Steven M., Olney, MD, UNITED STATES

KIND DATE NUMBER ______

US 2003143191 A1 20030731 US 2002-153604 A1 20020524 PATENT INFORMATION:

A1 20020524 (10) APPLICATION INFO .:

> NUMBER DATE _____

US 2001-293212P 20010525 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 17 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 21 Drawing Page(s)

LINE COUNT: 15446

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 7 OF 8 USPATFULL on STN L3

Albumin fusion proteins TI

The present invention encompasses albumin fusion proteins. Nucleic acid AB molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:181414 USPATFULL Albumin fusion proteins

TITLE: INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

NUMBER KIND DATE _____ -----

US 2003125247 A1 20030703 US 2001-833041 A1 20010412 (9) PATENT INFORMATION: APPLICATION INFO .: NUMBER DATE

._____ US 2000-256931P 20001221 (60) US 2000-199384P 20000425 (60) US 2000-229358P 20000412 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

29 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

AB

20 Drawing Page(s) NUMBER OF DRAWINGS:

15235 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 8 USPATFULL on STN L3

Binding polypeptides and methods based thereon TI

Binding polypeptides that specifically bind BLyS protein or BLyS-like polypeptides can be used in methods of the invention for detecting, diagnosing, or prognosing a disease or disorder associated with aberrant BLyS or BLyS receptor expression or inappropriate function of BLyS or BLyS receptor, comprising BLyS binding polypeptides or fragments or variants thereof, that specifically bind to BLyS. The present invention further relates to methods and compositions for preventing, treating or ameliorating a disease or disorder associated with aberrant BLyS or BLyS receptor expression or inappropriate BLyS function or BLyS receptor function, comprising administering to an animal, preferably a human, an effective amount of one or more BbyS binding polypeptides or fragments or variants thereof, that specifically bind to BLyS.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:133480 USPATFULL ACCESSION NUMBER:

Binding polypeptides and methods based thereon TITLE: Beltzer, James P., Carlisle, MA, UNITED STATES Potter, M. Daniel, UNITED STATES INVENTOR(S):

Potter, Marilou, Acton, MA, UNITED STATES LR Fleming, Tony J., Waltham, MA, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER KIND DATE ______ US 2003091565 A1 20030515 US 2001-932613 A1 20010817 (9)

NUMBER DATE ______

US 2000-226700P 20000818 (60) PRIORITY INFORMATION:

Utility DOCUMENT TYPE: APPLICATION FILE SEGMENT:

PATENT INFORMATION: APPLICATION INFO.:

Leon R. Yankwich, Esq., Yankwich & Associates, 130 LEGAL REPRESENTATIVE:

Bishop Allen Drive, Cambridge, MA, 02139

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 11834

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

13014 S RANTES L1

2849 S ALBUMIN FUSION PROTEIN L2

8 S L1 AND L2 1.3

=> s FGF-8

1364 FGF-8 L4

=> s 14 and albumin

509 L4 AND ALBUMIN L5

=> s 15 and fusion

L6 491 L5 AND FUSION

=> d 16 and 11

L1 IS NOT VALID HERE

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=> s 16 and 11

L7 207 L6 AND L1

=> s 17 and stabilizer

L8 0 L7 AND STABILIZER

=> d 17 ti abs ibib 1-10

L7 ANSWER 1 OF 207 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

ACCESSION NUMBER:

2004:13611 USPATFULL

TITLE:

Albumin fusion proteins

INVENTOR (S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

9)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004010134	A1	20040115	
APPLICATION INFO.:	US 2001-833245	A1	20010412	(:

			NUMBER	DATE	
PRIORITY	INFORMATION:	US	2000-256931P 2000-199384P 2000-229358P	20001221 20000425 20000412	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 25066

L7 ANSWER 2 OF 207 USPATFULL on STN

TI. 53 human secreted proteins

The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

ACCESSION NUMBER: 2004:13609 USPATFULL

TITLE: INVENTOR(S): 53 human secreted proteins

Rosen, Craig A., Laytonsville, MD, UNITED STATES Brewer, Laurie A., St. Paul, MN, UNITED STATES Duan, Roxanne D., Bethesda, MD, UNITED STATES Ruben, Steven M., Olney, MD, UNITED STATES

Florence, Kimberly A., Rockville, MD, UNITED STATES Greene, John M., Gaithersburg, MD, UNITED STATES Young, Paul E., Gaithersburg, MD, UNITED STATES Ferrie, Ann M., Painted Post, NY, UNITED STATES Yu, Guo-Liang, Berkeley, CA, UNITED STATES Florence, Charles, Rockville, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Olsen, Henrik, Gaithersburg, MD, UNITED STATES

NUMBER KIND DATE ______

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: US 2004010132 A1 20040115 US 2001-984429 A1 20011030 (9)

Continuation-in-part of Ser. No. US 1999-288143, filed

on 8 Apr 1999, GRANTED, Pat. No. US 6433139

Continuation-in-part of Ser. No. WO 1998-US21142, filed

on 8 Oct 1998, PENDING

NUMBER	DATE
2000-244E91D	20001101

PRIORITY INFORMATION:

20001101 (60) US 2000-244591P US 1997-61463P US 1997-61529P US 1997-71498P 19971009 (60) 19971009 (60) 19971009 (60) 19971009 (60) US 1997-61527P US 1997-61536P 19971009 (60) 19971009 (60) US 1997-61532P Utility

DOCUMENT TYPE:

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

4 Drawing Page(s)

LINE COUNT:

AΒ

27480

24

ANSWER 3 OF 207 USPATFULL on STN L7

7 Human ovarian and ovarian cancer associated proteins TI

This invention relates to newly identified ovarian or ovarian cancer related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "ovarian cancer antigens", and the use of such ovarian antigens for detecting disorders of the reproductive system, particularly the presence of ovarian cancer and ovarian cancer metastases. This invention relates to ovarian cancer antigens as well as vectors, host cells, antibodies directed to ovarian cancer antigens and the recombinant methods and synthetic methods for producing the same. Also provided are diagnostic methods for detecting, treating, preventing and/or prognosing disorders related to the ovary, including ovarian cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of ovarian cancer antigens of the invention. The present invention further relates to inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

TITLE:

INVENTOR(S):

2004:13598 USPATFULL

7 Human ovarian and ovarian cancer associated proteins Birse, Charles E., North Potomac, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER KIND DATE ______

US 2004010121 A1 20040115 PATENT INFORMATION: APPLICATION INFO.:

A1 20030124 (10) US 2003-333900 A1 20030124 WO 2001-US8585 20010316

Utility DOCUMENT TYPE: FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 16023 LINE COUNT:

ANSWER 4 OF 207 USPATFULL on STN L7

Nucleic acids, proteins, and antibodies TI

The present invention relates to novel polynucleotides associated with AB the plasma membrane, the polypeptides encoded by these polynucleotides herein collectively referred to as "plasma membrane associated antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such plasma membrane associated polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders related to these novel polypeptides. More specifically, isolated nucleic acid molecules are provided encoding novel plasma membrane associated polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing these plasma membrane associated polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the novel polypeptides of the invention. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

2004:12971 USPATFULL ACCESSION NUMBER:

Nucleic acids, proteins, and antibodies TITLE:

Birse, Charles E., North Potomac, MD, UNITED STATES INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

> KIND DATE NUMBER _______

PATENT INFORMATION: US 2004009491 A1 20040115 APPLICATION INFO.: US 2002-264237 A1 20021004 (10)

Continuation-in-part of Ser. No. WO 2001-US16450, filed RELATED APPLN. INFO.:

on 18 May 2001, PENDING

NUMBER DATE _____

US 2000-205515P 20000519 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 18144 LINE COUNT:

ANSWER 5 OF 207 USPATFULL on STN L7

Nucleic acids, proteins, and antibodies TI

The present invention relates to novel musculoskeletal system related AB polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "musculoskeletal system antigens," and the use of such musculoskeletal system antigens for detecting disorders of the musculoskeletal system, particularly the presence of cancer and cancer metastases. More specifically, isolated musculoskeletal system associated nucleic acid molecules are provided encoding novel musculoskeletal system associated polypeptides. Novel musculoskeletal system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human musculoskeletal system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the musculoskeletal system, including cancer of musculoskeletal tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:12966 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR (S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

PATENT ASSIGNEE(S):

Barash, Steven C., Rockville, MD, UNITED STATES Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

NUMBER	KIND	DATE

PATENT INFORMATION:

US 2004009488 20040115 Α1

APPLICATION INFO.:

20020913 (10) US 2002-242515 A1

RELATED APPLN. INFO.:

Continuation of Ser. No. US 2001-764877, filed on 17

Jan 2001. PENDING

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US 2000-205515P
                     20010105 (60)
US 2001-259678P
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DOCUMENT TYPE:

AB

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 32038

L7 ANSWER 6 OF 207 USPATFULL on STN

TI Apoptosis inducing molecule II and methods of use

The present invention relates to a novel member of the TNF-Ligand superfamily. More specifically, isolated nucleic acid molecules are provided encoding a human Apoptosis Inducing Molecule II (AIM II). AIM II polypeptides are also provided, as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of AIM II activity. Also provided are therapeutic methods for treating lymphadenopathy, aberrant bone development, autoimmune and other immune system diseases, graft versus host disease, rheumatoid arthritis, osteoarthritis and to inhibit neoplasia, such as tumor cell growth.

ACCESSION NUMBER:

TITLE:

INVENTOR(S):

2004:12629 USPATFULL

Apoptosis inducing molecule II and methods of use Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

Yu, Guo-Liang, Berkeley, CA, UNITED STATES

Ruben, Steven M., Brookeville, MD, UNITED STATES

Zhai, Yifan, Rockville, MD, UNITED STATES

Ullrich, Stephen, Rockville, MD, UNITED STATES Human Genome Sciences, Inc. (U.S. corporation)

PATENT ASSIGNEE(S):

KIND DATE NUMBER _____ PATENT INFORMATION:

APPLICATION INFO .:

RELATED APPLN. INFO.:

US 2004009147 A1 20040115 US 2003-375680 A1 20030228 (10)

Continuation-in-part of Ser. No. US 2000-523323, filed

on 10 Mar 2000, GRANTED, Pat. No. US 6635743

Continuation-in-part of Ser. No. US 1999-252656, filed

on 19 Feb 1999, GRANTED, Pat. No. US 6495520

Continuation-in-part of Ser. No. US 1998-27287, filed

on 20 Feb 1998, GRANTED, Pat. No. US 6479254

Continuation-in-part of Ser. No. US 1998-3886, filed on 7 Jan 1998, ABANDONED Continuation-in-part of Ser. No.

US 1997-822953, filed on 21 Mar 1997, ABANDONED

DATE NUMBER

PRIORITY INFORMATION:

______ US 2002-360234P 20020301 (60) US 1999-168380P 19991202 (60) US 1999-148326P 19990811 (60) US 1999-142657P 19990706 (60) US 1999-137457P 19990604 (60) US 1999-124041P 19990311 (60) US 1998-75409P 19980220 (60) US 1996-13923P 19960322 (60) US 1996-30157P 19961031 (60)

Utility

APPLICATION

DOCUMENT TYPE: FILE SEGMENT:

AB

LEGAL REPRESENTATIVE:

STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK

AVENUE, N.W., WASHINGTON, DC, 20005

45 NUMBER OF CLAIMS: 1

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

48 Drawing Page(s) 13322

LINE COUNT:

ANSWER 7 OF 207 USPATFULL on STN L7

Nucleic acids, proteins, and antibodies ΤI

The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of

polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

ACCESSION NUMBER:

2004:7345 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Birse, Charles E., North Potomac, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER KIND DATE ______

PATENT INFORMATION: US 2004005579 A1 20040108 APPLICATION INFO.: US 2002-264049 A1 20021004 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US18569, filed

on 7 Jun 2001, PENDING

NUMBER DATE

PRIORITY INFORMATION:

US 2000-209467P 20000607 (60)

DOCUMENT TYPE: FILE SEGMENT:

Utility

APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

LINE COUNT:

AB

18130

ANSWER 8 OF 207 USPATFULL on STN 1.7

Nucleic acids, proteins, and antibodies TI

The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:7343 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR (S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

NUMBER KIND DATE -----

APPLICATION INFO.:

PATENT ASSIGNEE(S):

US 2004005577 A1 20040108 US 2002-242747 A1 20020913 (10)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 2001-764881, filed on 17

Jan 2001, PENDING

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		US 2000-21	.7487P	20000711	(60)

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DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 24 1 27694

LINE COUNT:

ANSWER 9 OF 207 USPATFULL on STN

Nucleic acids, proteins, and antibodies

TI AB

1.7

The present invention relates to novel cardiovascular system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "cardiovascular system antigens," and the use of such cardiovascular system antigens for detecting disorders of the cardiovascular system, particularly the presence of cancer of cardiovascular system tissues and cancer metastases. More specifically, isolated cardiovascular system associated nucleic acid molecules are provided encoding novel cardiovascular system associated polypeptides. Novel cardiovascular system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human cardiovascular system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the cardiovascular system, including cancer of cardiovascular system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:7341 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

PATENT ASSIGNEE(S): Hu

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

NUMBER KIND DATE
US 2004005575 A1 20040108

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

US 2002-227577 A1 20020826 (10)

Continuation of Ser. No. US 2002-91504, filed on 7 Mar 2002, PENDING Continuation of Ser. No. US 2001-764869,

filed on 17 Jan 2001, ABANDONED

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PRIORITY	INFORMATION:	US	2000-179065P	20000131	131 (60)
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		US	2000-225758P	20000814	(60)
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US 2000-209467P	20000607	(60)
US 2000-205515P	20000519	(60)
US 2001-259678P	20010105	(60)
Utility		

DOCUMENT TYPE: FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 28742

L7 ANSWER 10 OF 207 USPATFULL on STN

TI 50 human secreted proteins

The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 200

2004:2568 USPATFULL

TITLE:

50 human secreted proteins

INVENTOR(S):

Moore, Paul A., Germantown, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
Brewer, Laurie A., St. Paul, MN, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., Rockville, MD (U.S.

corporation)

PATENT INFORMATION: APPLICATION INFO.:

US 2004002591 A1 20040101 US 2002-47021 A1 20020117 (10)

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 2000-722329, filed on 28 Nov 2000, PENDING Continuation of Ser. No. US

1999-262109, filed on 4 Mar 1999, ABANDONED

Continuation-in-part of Ser. No. WO 1998-US18360, filed

on 3 Sep 1998, PENDING

DATE NUMBER _____ US 2001-262066P 20010118 (60) PRIORITY INFORMATION: US 1997-57626P 19970905 (60) US 1997-57663P 19970905 (60) 19970905 (60) US 1997-57669P 19970912 (60) US 1997-58666P 19970912 (60) US 1997-58667P US 1997-58973P 19970912 (60) 19970912 (60) US 1997-58974P US 1998-90112P 19980622 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 33379

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

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8 S L1 AND L2

L4 1364 S FGF-8
L5 509 S L4 AND ALBUMIN
L6 491 S L5 AND FUSION

L7 207 S L6 AND L1

L8 0 S L7 AND STABILIZER

=> s fusion partner

L1

L2

L3

L9 6424 FUSION PARTNER

=> s 19 and albumin

L10 2467 L9 AND ALBUMIN

=> s 19 and BMP

L11 176 L9 AND BMP

=> s 111 and 110

L12 141 L11 AND L10

=> s 112 and 11

L13 101 L12 AND L1

=> d 113 ti abs ibib 1-10

L13 ANSWER 1 OF 101 USPATFULL on STN

TI Albumin fusion proteins

The present invention encompasses albumin fusion proteins.

Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

ACCESSION NUMBER: 2004:13611 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Haseltine, William A., Washington, DC, UNITED STATES

PRIORITY INFORMATION: US 2000-256931P 20001221 (60)
US 2000-199384P 20000425 (60)
US 2000-229358P 20000412 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

18 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 25066

L13 ANSWER 2 OF 101 USPATFULL on STN

TΙ Nucleic acids, proteins, and antibodies

The present invention relates to novel polynucleotides associated with the plasma membrane, the polypeptides encoded by these polynucleotides herein collectively referred to as "plasma membrane associated antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such plasma membrane associated polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders related to these novel polypeptides. More specifically, isolated nucleic acid molecules are provided encoding novel plasma membrane associated polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing these plasma membrane associated polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the novel polypeptides of the invention. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

ACCESSION NUMBER:

2004:12971 USPATFULL

TITLE:

AB

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Birse, Charles E., North Potomac, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER	KIND	DATE

PATENT INFORMATION: APPLICATION INFO.:

A1 20040115 US 2004009491 -US 2002-264237 20021004 (10) A1

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US16450, filed

on 18 May 2001, PENDING

DATE NUMBER ______

PRIORITY INFORMATION:

US 2000-205515P 20000519 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24 EXEMPLARY CLAIM: 1 18144 LINE COUNT:

L13 ANSWER 3 OF 101 USPATFULL on STN

Nucleic acids, proteins, and antibodies TI

The present invention relates to novel musculoskeletal system related AB polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "musculoskeletal system antigens," and the use of such musculoskeletal system antigens for detecting disorders of the musculoskeletal system, particularly the presence of cancer and cancer metastases. More specifically, isolated musculoskeletal system associated nucleic acid molecules are provided encoding novel musculoskeletal system associated polypeptides. Novel musculoskeletal system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human musculoskeletal system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating,

preventing and/or prognosing disorders related to the musculoskeletal system, including cancer of musculoskeletal tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:12968 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

PATENT ASSIGNEE(S):

US 2004009488 A1 20040115

US 2002-242515 A1 20020913 (10)

Continuation of Ser. No. US 2001-764877, filed on 17

DATE

Jan 2001, PENDING

US 2000-229287P

US 2000-229513P

NUMBER

PRIORITY INFORMATION:

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US 2001-259678P
Utility
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DOCUMENT TYPE:

FILE SEGMENT:

AB

LEGAL REPRESENTATIVE:

APPLICATION HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24 EXEMPLARY CLAIM: 1 32038 LINE COUNT:

L13 ANSWER 4 OF 101 USPATFULL on STN

TI

Nucleic acids, proteins, and antibodies The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the

production and/or function of the polypeptides of the invention.

ACCESSION NUMBER:

2004:7345 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR (S):

Birse, Charles E., North Potomac, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER	KIND	DATE
TTC 2004005579	λ1	20040108

PATENT INFORMATION: US 2004005579 A1 20040108
APPLICATION INFO.: US 2002-264049 A1 20021004 (10)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US18569, filed

on 7 Jun 2001, PENDING

NUMBER DATE _____

PRIORITY INFORMATION:

US 2000-209467P 20000607 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

LINE COUNT:

18130

L13 ANSWER 5 OF 101 USPATFULL on STN

Nucleic acids, proteins, and antibodies TI

The present invention relates to novel proteins. More specifically, AB isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:7343 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

KIND DATE NUMBER US 2004005577 A1 20040108 US 2002-242747 A1 20020913 (10)

PATENT INFORMATION: APPLICATION INFO.:

PATENT ASSIGNEE(S):

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-764881, filed on 17

Jan 2001, PENDING

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PRIORITY	INFORMATION:	US	2000-179065P	20000131	(60)
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US 2000-205515P 20000519 (60) US 2001-259678P 20010105 (60)

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT:

AB

1 27694

L13 ANSWER 6 OF 101 USPATFULL on STN

Nucleic acids, proteins, and antibodies TI

The present invention relates to novel cardiovascular system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "cardiovascular system antigens," and the use of such cardiovascular system antigens for detecting disorders of the cardiovascular system, particularly the presence of cancer of cardiovascular system tissues and cancer metastases. More specifically, isolated cardiovascular system associated nucleic acid molecules are provided encoding novel cardiovascular system associated polypeptides. Novel cardiovascular system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human cardiovascular system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the cardiovascular system, including cancer of cardiovascular system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER:

2004:7341 USPATFULL

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES Human Genome Sciences, Inc., Rockville, MD, UNITED

PATENT ASSIGNEE(S): STATES, 20850 (U.S. corporation)

> KIND DATE NUMBER _____ US 2004005575 A1 20040108 US 2002-227577 A1 20020826 (10)

US 2000-216647P 20000707 (60)

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. US 2002-91504, filed on 7 Mar 2002, PENDING Continuation of Ser. No. US 2001-764869, filed on 17 Jan 2001, ABANDONED

NUMBER DATE -----US 2000-179065P 20000131 (60) PRIORITY INFORMATION: US 2000-180628P 20000204 (60) 20000628 (60) US 2000-214886P 20000711 (60) US 2000-217487P 20000814 (60) US 2000-225758P US 2000-220963P 20000726 (60) US 2000-217496P 20000711 (60) US 2000-225447P 20000814 (60) US 2000-218290P 20000714 (60) US 2000-225757P 20000814 (60) US 2000-226868P 20000822 (60)

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Utility
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DOCUMENT TYPE: FILE SEGMENT: LEGAL REPRESENTATIVE:

APPLICATION
HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,
ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 28742

L13 ANSWER 7 OF 101 USPATFULL on STN

ΤI 50 human secreted proteins

The present invention relates to novel human secreted proteins and AB isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. 2004:2568 USPATFULL ACCESSION NUMBER:

50 human secreted proteins TITLE:

Moore, Paul A., Germantown, MD, UNITED STATES INVENTOR(S):

Ruben, Steven M., Olney, MD, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Olsen, Henrik S., Gaithersburg, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Brewer, Laurie A., St. Paul, MN, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD (U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE ° _____ PATENT INFORMATION:

US 2004002591 A1 20040101 US 2002-47021 A1 20020117 (10) APPLICATION INFO .:

Continuation-in-part of Ser. No. US 2000-722329, filed RELATED APPLN. INFO.:

on 28 Nov 2000, PENDING Continuation of Ser. No. US

1999-262109, filed on 4 Mar 1999, ABANDONED

Continuation-in-part of Ser. No. WO 1998-US18360, filed

on 3 Sep 1998, PENDING

NUMBER DATE

PRIORITY INFORMATION:

US 2001-262066P 20010118 (60) US 1997-57626P 19970905 (60) US 1997-57663P 19970905 (60) US 1997-57669P 19970905 (60) 19970912 (60) US 1997-58666P US 1997-58667P 19970912 (60) US 1997-58973P 19970912 (60)

US 1997-58974P 19970912 (60) US 1998-90112P 19980622 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 33379

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 101 USPATFULL on STN Nucleic acids, proteins, and antibodies TI

The present invention relates to novel excretory system related AB polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "excretory system antigens," and the use of such excretory system antigens for detecting disorders of the excretory system, particularly the presence of cancer of excretory system tissues and cancer metastases. More specifically, isolated excretory system associated nucleic acid molecules are provided encoding novel excretory system associated polypeptides. Novel excretory system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human excretory system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the excretory system, including cancer of excretory system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:334955 USPATFULL

TITLE:

Nucleic acids, proteins, and antibodies

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., Rockville, MD, 20850 (U.S.

corporation)

NUMBER	KIND	DATE
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US 2003235831	A1	20031225

PATENT INFORMATION: APPLICATION INFO.:

US 2003235831 A1 20031225 US 2002-242355 A1 20020913

RELATED APPLN. INFO.:

Continuation of Ser. No. US 2001-764897, filed on 17

(10)

Jan 2001, PENDING

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Utility
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DOCUMENT TYPE: FILE SEGMENT:

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APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT:

22457

24

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 9 OF 101 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for

identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:334953 USPATFULL

TITLE:

INVENTOR(S):

Nucleic acids, proteins, and antibodies Ruben, Steven M., Olney, MD, UNITED STATES

Barash, Steven C., Rockville, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Birse, Charles E., North Potomac, MD, UNITED STATES

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

KIND DATE NUMBER _____ US 2003235829 A1 20031225 US 2002-227646 A1 20020826

PATENT INFORMATION:

APPLICATION INFO .: RELATED APPLN. INFO.:

(10)

Continuation of Ser. No. US 2001-860670, filed on 21 May 2001, PENDING Continuation-in-part of Ser. No. WO 2001-US1346, filed on 17 Jan 2001, PENDING

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                    20000906 (60)
US 2000-230437P
US 2000-251990P
                    20001208 (60)
                    20001205 (60)
US 2000-251988P
                    20001205
US 2000-251030P
                             (60)
                    20001206 (60)
US 2000-251479P
                    20001205 (60)
US 2000-256719P
US 2000-250160P
                    20001201 (60)
US 2000-251989P
                    20001208 (60)
US 2000-250391P
                    20001201 (60)
US 2000-254097P
                    20001211 (60)
US 2000-231968P
                    20000912 (60)
US 2000-226279P
                    20000818 (60)
US 2000-186350P
                    20000302 (60)
US 2000-184664P
                    20000224 (60)
US 2000-189874P
                    20000316 (60)
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US 2000-198123P 20000418 (60) US 2000-227009P 20000823 (60) US 2000-235484P 20000926 (60) US 2000-190076P 20000317 (60) US 2000-209467P 20000607 (60) US 2000-205515P 20000519 (60) US 2001-259678P 20010105 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 20415

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 10 OF 101 USPATFULL on STN

TI Novel methods of diagnosis of metastatic colorectal cancer, compositions and methods of screening for modulators of metastatic colorectal cancer

AB Described herein are methods and compositions that can be used for diagnosis and treatment of metastatic colorectal cancer. Also described herein are methods that can be used to identify modulators of metastatic colorectal cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:334944 USPATFULL

TITLE: Novel methods of diagnosis of metastatic colorectal

cancer, compositions and methods of screening for

modulators of metastatic colorectal cancer

INVENTOR(S): Mack, David H., Menlo Park, CA, UNITED STATES

Markowitz, Sanford David, Pepper Pike, OH, UNITED

STATES

PATENT ASSIGNEE(S): Eos Biotechnology, Inc., South San Francisco, CA (U.S.

corporation)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO

CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

NUMBER OF CLAIMS: 21 EXEMPLARY CLAIM: 1 LINE COUNT: 22670

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

L1 13014 S RANTES

L2 2849 S ALBUMIN FUSION PROTEIN

L3 8 S L1 AND L2

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4 1364 S FGF-8
T.4
            509 S L4 AND ALBUMIN
L5
L6
            491 S L5 AND FUSION
            207 S L6 AND L1
L7
              0 S L7 AND STABILIZER
L8
L9
           6424 S FUSION PARTNER
           2467 S L9 AND ALBUMIN
T.10
            176 S L9 AND BMP
T.11
            141 S L11 AND L10
L12
            101 S L12 AND L1
L13
=> s albumin () fusion protein
          2849 ALBUMIN (W) FUSION PROTEIN
=> s albumin () BMP
             O ALBUMIN (W) BMP
L15
=> s albumin () FGF
1.16
            35 ALBUMIN (W) FGF
=> d l16 ti abs ibib tot
L16
      ANSWER 1 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT On STN
ΤI
      Fibroblast growth factor family polypeptide which stimulates
      proliferation and growth of hepatocytes is useful for treating hepatic
      disorders -
      AAY58432 Protein
ΑN
                              DGENE
      This sequence represents a truncated rat fibroblast growth factor-16
AR
      (FGF-16) des-N-9, where residues 1-9 of the full-length rat FGF-16
      (AAY58428) have been removed by proteolytic cleavage. FGF-16 has
      hepatocyte proliferation and growth activity, and increases hepatic
      production of triglycerides and serum proteins (e.g., albumin).
      FGF-16 nucleic acids and/or proteins may be used for stimulating
      the proliferation and development of hepatocytes both in vitro and in
      vivo. The isolated nucleic acid molecules may be used directly in cell or
      gene therapy applications to treat or prevent liver disorders, including
      hepatic cirrhosis, fulminant liver failure, damage caused by acute viral
      hepatitis and toxic insults to the liver.
ACCESSION NUMBER: AAY58432 Protein
                                          DGENE
                  Fibroblast growth factor family polypeptide which stimulates
TITLE:
                  proliferation and growth of hepatocytes is useful for
                  treating hepatic disorders -
                  Arakawa T; Itoh N; Danilenko D M; Martin F H
INVENTOR:
PATENT ASSIGNEE: (AMGE-N) AMGEN INC.
                 US 5998170
                              A 19991207
PATENT INFO:
                                                           33p
APPLICATION INFO: US 1997-943915
                                   19971003
PRIORITY INFO: US 1997-943915
                                   19971003
DOCUMENT TYPE:
                 Patent
LANGUAGE:
                  English
OTHER SOURCE:
                  2000-085497 [07]
                  Rat truncated fibroblast growth factor FGF-16, des-N-9.
DESCRIPTION:
L16
      ANSWER 2 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
      Fibroblast growth factor family polypeptide which stimulates
ΤI
      proliferation and growth of hepatocytes is useful for treating hepatic
      disorders -
ΔN
      AAY58431 Protein
                              DGENE
      This sequence represents a truncated rat fibroblast growth factor-16
ΔR
      (FGF-16) des-N-34, where residues 1-34 of the full-length rat FGF-16
      (AAY58428) have been removed by proteolytic cleavage. FGF-16 has
      hepatocyte proliferation and growth activity, and increases hepatic
      production of triglycerides and serum proteins (e.g., albumin).
      FGF-16 nucleic acids and/or proteins may be used for stimulating
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the proliferation and development of hepatocytes both in vitro and in

vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAY58431 Protein DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]
DESCRIPTION: Rat truncated fi

DESCRIPTION: Rat truncated fibroblast growth factor FGF-16, des-N-34.

L16 ANSWER 3 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAY58430 peptide DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents an E tag, DNA encoding which was fused to the 3' end of the rat FGF-16 coding region, along with DNA encoding a hexahistidine taq. The tagged rat FGF-16 cDNA was cloned into a baculovirus expression system in an exemplification of the present invention.

ACCESSION NUMBER: AAY58430 peptide DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: E tag peptide, SEQ ID NO:6.

L16 ANSWER 4 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAY58429 Protein DGENE

This sequence represents human fibroblast growth factor-16 (FGF-16).

FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent

liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAY58429 Protein **DGENE**

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE:

English 2000-085497 [07] OTHER SOURCE: CROSS REFERENCES: N-PSDB: AAZ55791

Human fibroblast growth factor FGF-16. DESCRIPTION:

ANSWER 5 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 ΤI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AAY58428 Protein DGENE AN

This sequence represents rat fibroblast growth factor-16 (FGF-16). FGF-16 AB has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAY58428 Protein DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

US 5998170 PATENT INFO: A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

2000-085497 [07] OTHER SOURCE: CROSS REFERENCES: N-PSDB: AAZ55790

Rat fibroblast growth factor FGF-16. DESCRIPTION:

ANSWER 6 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates TI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55819 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55818-Z55819 represent oligonucleotides used in the preparation of the construct pAMG21-delta-N34-rFGF-16, comprising a fragment of the rat FGF-16 cDNA sequence, in an exemplification of the

present invention.

ACCESSION NUMBER: AAZ55819 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Oligonucleotide SEQ ID NO:32, used to construct

pAMG21-delta-N34-rFGF-16.

L16 ANSWER 7 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55818 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55818-Z55819 represent oligonucleotides used in the preparation of the construct pAMG21-delta-N34-rFGF-16, comprising a fragment of the rat FGF-16 cDNA sequence, in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55818 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

disorders -

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Oligonucleotide SEQ ID NO:31, used to construct

pAMG21-delta-N34-rFGF-16.

L16 ANSWER 8 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic

AN AAZ55817 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure,

damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a pAMG21 vector PCR primer used to ascertain that a pAMG21/rat FGF-16 construct had been produced in an

exemplification of the present invention.

ACCESSION NUMBER: AAZ55817 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: pAMG21 vector PCR primer, SEQ ID NO:28.

L16 ANSWER 9 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55816 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55815-Z55816 represent PCR primers used to clone rat FGF-16 cDNA (AAZ55790) into E. coli.

ACCESSION NUMBER: AAZ55816 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat FGF-16 PCR primer, SEQ ID NO:28.

L16 ANSWER 10 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55815 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

Sequences AAZ55815-Z55816 represent PCR primers used to clone rat FGF-16

cDNA (AAZ55790) into E. coli.

ACCESSION NUMBER: AAZ55815 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat FGF-16 PCR primer, SEQ ID NO:27.

L16 ANSWER 11 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic

disorders -

AN AAZ55814 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55813-Z55814 represent PCR primers used to detect human FGF-16 DNA in bacteria which had previously been transformed with a vector comprising human FGF-16 DNA.

ACCESSION NUMBER: AAZ55814 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat FGF-16 PCR primer, SEQ ID NO:26.

L16 ANSWER 12 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55813 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55813-Z55814 represent PCR primers used to detect human

FGF-16 DNA in bacteria which had previously been transformed with a vector comprising human FGF-16 DNA.

ACCESSION NUMBER: AAZ55813 DNA **DGENE**

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 PATENT INFO: US 5998170 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

Human FGF-16 PCR primer, SEQ ID NO:25. DESCRIPTION:

ANSWER 13 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16 TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

ΔN AAZ55812 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55810-Z55812 represent PCR primers used in a PCR technique similar to 5' RACE (rapid amplification of cDNA ends) for extension and amplification of human genomic FGF-16 DNA sequences.

ACCESSION NUMBER: AAZ55812 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: 2000-085497 [07]

Rat FGF-16 genomic PCR primer, SEQ ID NO:24. DESCRIPTION:

ANSWER 14 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates TI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AAZ55811 DNA DGENE

AN The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55810-Z55812 represent PCR primers used in a PCR technique similar to 5' RACE (rapid amplification of cDNA ends) for extension and

amplification of human genomic FGF-16 DNA sequences.

ACCESSION NUMBER: AAZ55811 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 genomic PCR primer, SEQ ID NO:23.

L16 ANSWER 15 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55810 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55810-Z55812 represent PCR primers used in a PCR technique similar to 5' RACE (rapid amplification of cDNA ends) for extension and amplification of human genomic FGF-16 DNA sequences.

ACCESSION NUMBER: AAZ55810 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 partially random genomic PCR primer, SEQ ID

NO:22.

L16 ANSWER 16 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55809 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid

amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55809 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33g

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 PCR primer, SEQ ID NO:21.

L16 ANSWER 17 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55808 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g.,

albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55808 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 5' RACE PCR primer, SEQ ID NO:20.

amplification of cDNA ends) of human FGF-16 cDNA.

L16 ANSWER 18 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55807 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid

ACCESSION NUMBER: AAZ55807 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

A 19991207 PATENT INFO: US 5998170 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: DESCRIPTION: 2000-085497 [07]

Human FGF-16 5' RACE PCR primer, SEQ ID NO:19.

ANSWER 19 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates ΤI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

ΔN AAZ55806 DNA DGENE

ΔR The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure,

damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55806 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

US 5998170 PATENT INFO: A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (E).

ANSWER 20 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN L16

Fibroblast growth factor family polypeptide which stimulates TI

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

DGENE AAZ55805 DNA AN

The invention relates to rat and human fibroblast growth factor-16 AΒ (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be

used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55805 DNA DGENE TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (D).

L16 ANSWER 21 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55804 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid

amplification of cDNA ends) of human FGF-16 cDNA. ACCESSION NUMBER: AAZ55804 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (C).

L16 ANSWER 22 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic

disorders -

AN AAZ55803 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be

albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55803 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (B).

L16 ANSWER 23 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic

disorders -AN AAZ55802 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g.,

albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55802 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 partially random 5' RACE PCR primer, SEQ ID

NO:18 (A).

L16 ANSWER 24 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates

amplification of cDNA ends) of human FGF-16 cDNA.

proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55801 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55801-Z55809 represent PCR primers used in 5' RACE (rapid

ACCESSION NUMBER: AAZ55801 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 5' RACE PCR primer, SEQ ID NO:16.

L16 ANSWER 25 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT ON STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55800 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a PCR primer used with primer AAZ55799 in 3' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55800 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

DANGUAGE: 2000-085497 [07]

DESCRIPTION: Human FGF-16 3' RACE PCR primer, SEQ ID NO:15.

L16 ANSWER 26 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55799 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a primer used to synthesise first strand cDNA from human heart polyA+ RNA, and also used as a PCR primer in 3' RACE (rapid amplification of cDNA ends) of human FGF-16 cDNA.

ACCESSION NUMBER: AAZ55799 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Reverse transcription/human FGF-16 3' RACE PCR primer, SEQ ID

NO:14.

L16 ANSWER 27 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI Fibroblast growth factor family polypeptide which stimulates
proliferation and growth of hepatocytes is useful for treating hepatic
disorders -

AN AAZ55798 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55798 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

disorders -

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human fibroblast growth factor FGF-16 PCR primer, SEQ ID

NO:132.

L16 ANSWER 28 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic

AN AAZ55797 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55797 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:12.

L16 ANSWER 29 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55796 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55796 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N)AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Human heart polyA+ RNA reverse transcription primer, SEQ ID

NO:11.

L16 ANSWER 30 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic

disorders -I AAZ55795 DNA DGENE

AN AAZ55795 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a

human FGF-16 cDNA fragment in an exemplification of the present

invention.

ACCESSION NUMBER: AAZ55795 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:10.

L16 ANSWER 31 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic

disorders -

AN AAZ55794 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present invention

ACCESSION NUMBER: AAZ55794 DNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

DESCRIPTION: Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:9.

L16 ANSWER 32 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55793 DNA DGENE

The invention relates to rat and human fibroblast growth factor-16 (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. Sequences AAZ55793-Z55798 represent primers used to isolate and clone a human FGF-16 cDNA fragment in an exemplification of the present

invention.

ACCESSION NUMBER: AAZ55793 DNA DGENE

Fibroblast growth factor family polypeptide which stimulates TITLE:

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

Arakawa T; Itoh N; Danilenko D M; Martin F H INVENTOR:

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

Rat fibroblast growth factor FGF-16 PCR primer, SEQ ID NO:8. DESCRIPTION:

L16 ANSWER 33 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN TI Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for treating hepatic

disorders -

AN AAZ55792 cDNA DGENE

The invention relates to rat and human fibroblast growth factor-16 AB (FGF-16, AAY58428-Y58429), and nucleotides which encode these proteins. FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver. This sequence represents a rat fibroblast growth factor-16 partial cDNA, used to design PCR primers to isolate CDNA encoding human FGF-16 in an exemplification of the present invention.

ACCESSION NUMBER: AAZ55792 cDNA

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: A 19991207 US 5998170 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07]

Rat fibroblast growth factor FGF-16 partial cDNA. DESCRIPTION:

L16 ANSWER 34 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT ON STN

Fibroblast growth factor family polypeptide which stimulates ΤI proliferation and growth of hepatocytes is useful for treating hepatic disorders -

AN AAZ55791 cDNA DGENE

AB This sequence represents cDNA encoding human fibroblast growth factor-16 (FGF-16). FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAZ55791 cDNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

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treating hepatic disorders --
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INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07] CROSS REFERENCES: P-PSDB: AAY58429

DESCRIPTION: cDNA encoding human fibroblast growth factor FGF-16.

L16 ANSWER 35 OF 35 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic

disorders -

AN AAZ55790 cDNA DGENE

This sequence represents cDNA encoding rat fibroblast growth factor-16 (FGF-16). FGF-16 has hepatocyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the proliferation and development of hepatocytes both in vitro and in vivo. The isolated nucleic acid molecules may be

both in vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or prevent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral hepatitis and toxic insults to the liver.

ACCESSION NUMBER: AAZ55790 cDNA DGENE

TITLE: Fibroblast growth factor family polypeptide which stimulates

proliferation and growth of hepatocytes is useful for

treating hepatic disorders -

INVENTOR: Arakawa T; Itoh N; Danilenko D M; Martin F H

PATENT ASSIGNEE: (AMGE-N) AMGEN INC.

PATENT INFO: US 5998170 A 19991207 33p

APPLICATION INFO: US 1997-943915 19971003 PRIORITY INFO: US 1997-943915 19971003

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-085497 [07] CROSS REFERENCES: P-PSDB: AAY58428

DESCRIPTION: cDNA encoding rat fibroblast growth factor FGF-16.

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L2

(FILE 'HOME' ENTERED AT 12:38:37 ON 16 JAN 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 12:39:04 ON 16 JAN 2004

L1 13014 S RANTES

2849 S ALBUMIN FUSION PROTEIN

L3 8 S L1 AND L2

L4 1364 S FGF-8

L5 509 S L4 AND ALBUMIN L6 491 S L5 AND FUSION

L7 207 S L6 AND L1

L8 0 S L7 AND STABILIZER

L9 6424 S FUSION PARTNER

L10 2467 S L9 AND ALBUMIN

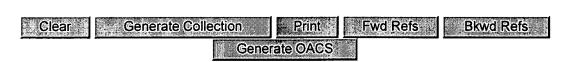
L11 176 S L9 AND BMP L12 141 S L11 AND L10

L13 101 S L12 AND L1

L14 2849 S ALBUMIN () FUSION PROTEIN

L15 0 S ALBUMIN () BMP L16 35 S ALBUMIN () FGF

Hit List



Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 4563489 A

L2: Entry 1 of 1

File: USPT

Jan 7, 1986

US-PAT-NO: 4563489

DOCUMENT-IDENTIFIER: US 4563489 A

TITLE: Biodegradable organic polymer delivery system for bone morphogenetic protein

DATE-ISSUED: January 7, 1986

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Urist; Marshall R. Pacific Palisades CA

US-CL-CURRENT: <u>514/21</u>; <u>424/426</u>, <u>523/115</u>, <u>524/17</u>, <u>524/21</u>, <u>604/891.1</u>, <u>623/915</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	St. Mainist	-Mainte	Claims	KMC	Drawi De
Clear		Genera	ate Col	lection	Print] F	wd Refs	Bkw	d Refs	Genera	ate OA	CS.
	Ter	ms					. <u> </u>	Documen	nts			
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Display Format: CIT Change Format

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6025194 A

L8: Entry 1 of 2

File: USPT

Feb 15, 2000

US-PAT-NO: 6025194

DOCUMENT-IDENTIFIER: US 6025194 A

TITLE: Nucleic acid sequence of senescence asssociated gene

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Funk; Walter

Hayward

CA

US-CL-CURRENT: 435/320.1; 435/325, 536/23.1, 536/23.5, 536/24.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments. Claims KVMC Draw. De

2. Document ID: US 5733541 A

L8: Entry 2 of 2

File: USPT

Mar 31, 1998

US-PAT-NO: 5733541

DOCUMENT-IDENTIFIER: US 5733541 A

** See image for Certificate of Correction **

TITLE: Hematopoietic cells: compositions and methods

DATE-ISSUED: March 31, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Taichman; Russell S.

Ann Arbor

ΜI

Emerson; Stephen G.

Wayne

PA

US-CL-CURRENT: $\underline{424}/\underline{93.1}$; $\underline{424}/\underline{93.7}$, $\underline{435}/\underline{325}$, $\underline{435}/\underline{347}$, $\underline{435}/\underline{373}$, $\underline{435}/\underline{375}$, $\underline{435}/\underline{377}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

h e b b g e e e f b

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
	Terms		Docu	ments	
	BMP-2 and L7				2

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Freeform Search

Ċ	Database:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins					
	Term:	albumin and fusion protein					
	Display: Generate:	Documents in <u>Display Format</u> : CIT Starting with Number 1 C Hit List • Hit Count C Side by Side C Image Search Clear Interrupt	Note that the same of the same				
	Search History						

DATE: Friday, January 16, 2004 Printable Copy Create Case

Set Name side by side		Hit Count	Set Name result set
DB=US	SPT; PLUR=YES; OP=OR		
<u>L10</u>	19 adj BMP	980	<u>L10</u>
<u>L9</u>	albumin fusion protein	198014	<u>L9</u>
<u>L8</u>	BMP-2 and L7	2	<u>L8</u>
<u>L7</u>	L6 and IL-6	284	<u>L7</u>
<u>L6</u>	L5 and Rantes	838	<u>L6</u>
<u>L5</u>	human chemokine and albumin	314787	<u>L5</u>
<u>L4</u>	albumin adj2 CXC3	0	<u>L4</u>
<u>L3</u>	albumin fused to BMP	159316	<u>L3</u>
<u>L2</u>	albumin adj2 BMP	1	<u>L2</u>
L1	albumin and fusion protein	144237	L1

END OF SEARCH HISTORY